POWERED MIXER

EMX 3000

SERVICE MANUAL



CONTENTS

YAMAHA
HAMAMATSU, JAPAN

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IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING : Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT : This presentation or sale of this manual to any individual or firm does not constitute authorization certification, recognition of any applicable technical capabilities, or establish a principal-agent relationship of any form.

The data provided is belived to be accurate and applicable to the unit(s) indicated on the cover. The research engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and changes in specification are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING : Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground bus in the unit (heavy gauge black wires connect to this bus.)

IMPORTANT : Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (Where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

WARNING: THIS APPARATUS MUST BE EARTHED

IMPORTANT

THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

GREEN-AND-YELLOW :	EARTH
BLUE :	NEUTRAL
BROWN :	LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN and YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured GREEN and YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

* This applies only to products distributed by YAMAHA KEMBLE MUSIC (U.K.) LTD.

WARNING

Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

SPECIFICATIONS

General specifications

Maximum output power	STEREO: 300 W+300 W/4Ω @0.5% THD at 1 kHz 215 W+215 W/8Ω @0.5% THD at 1 kHz BRIDGE: 600 W/8Ω @0.5% THD at 1 kHz	
Frequency response	20 Hz~20 kHz +1 dB, –3 dB @1 W output into 8Ω (SPEAKER OUT)	Channel Gain control at minimum.
	20 Hz~20 kHz +1 dB, –3 dB @+4 dB output into 600Ω (ST OUT, MONO OUT, EFFECT SEND, MONITOR OUT)	Channel Gain control at minimum.
Total harmonic distortion	Less than 0.5% @20 Hz~20 kHz, 150 W output into 4Ω (SPEAKER OUT) Less than 0.3% @20 Hz~20 kHz, +14 dB output into 600Ω (ST OUT, MONO OUT, EFFECT SEND, MONITOR OUT)	
Hum & noise (Average, Rs=150Ω) (with 20 Hz~20 kHz BPF)	–128 dB equivalent input noise –63 dB residual output noise (SPEAKER OUT)	
	–95 dB residual output noise (ST OUT, MONO OUT, EFFECT SEND, MONITOR OUT)	
	–87 dB (ST OUT, MONO OUT)	ST master/MONO master fader at maximum level and all channel fader at minimum.
	–64 dB (68 dB S/N) (ST OUT, MONO OUT)	ST master/MONO master fader and 1 channel fader at maximum level. And 1 channel Gain control at maximum.
	–80 dB (EFFECT SEND, MONITOR OUT)	Master fader at maximum level and all channel level control at minimum.
Maximum voltage gain	91 dB MIC IN to SPEAKER OUT (CH 1~8) 64 dB MIC IN to ST OUT (CH 1~8) 38 dB LINE IN to ST OUT (CH 1~8) 38 dB ST IN to ST OUT (CH 9/10, 11/12) 70 dB MIC IN to EFFECT SEND (CH 1~8) 64 dB MIC IN to MONITOR OUT (CH 1~8)	
Crosstalk at 1 kHz	–70 dB adjacent input, –70 dB input to output	
MIC IN gain control	44 dB variable	
POWER AMP level control	14 dB variable	
Input channel equalization	HIGH 10 kHz shelving* MID 2.5 kHz peaking LOW 100 Hz shelving* * Turn over/roll off frequency of shelving: 3 dB below maximum variable level.	
Meters	13 points LED meter	
CH peak indicators	Red LED on each channel lits when POST EQ signal reaches the level –3 dB below clipping.	
Limiter	Comp. : THD≥0.5%	
LIMIT indicators	Turn on THD≥0.5%	
Graphic equalizer	7 bands (125, 250, 500, 1k, 2k, 4k, 8k Hz), ±12 dB Maximum	
Internal digital effect	16 programs, PARAMETER control	
Foot switch	Digital effect mute: on/off	
Protection circuit (Power amp)	POWER switch on/off mute, DC detection, TEMP (heatsink temp. ≥90°C)	
Fan circuit	stop — low speed (50°C) — variable — high speed (70°C)	
Phantom power	+48 V is supplied to electrically balanced inputs.	
Option	FC5 (Foot switch)	
Power requirement/ Power consumption	USA and Canada: 120 V AC 60 Hz, 250 W Europe: 230 V AC 50 Hz, 300 W Other: 240 V AC 50 Hz, 300 W	
Dimensions (WxHxD)	480x125x454 mm	
Weight	16 kg	
Accessories	Power cord, Owner's Manual	

● Input specifications

Input terminals	Gain trim	Actual load impedance	For use with nominal	Input level		Connectors on mixer
				Sensitivity[1]	Max. before clip	
MIC INPUT (1–8)	MAX MIN	5 kΩ	50~600Ω Mics	–60 dB (775 µV) –16 dB (123 mV)	–40 dB (7.75 mV) +4 dB (1.23 V)	XLR-3-31 type[2]
LINE INPUT (1–8)	MAX MIN	50 kΩ	600Ω Lines	–34 dB (15.5 mV) +10 dB (2.45 V)	–14 dB (155 mV) +30 dB (24.5 V)	PHONE JACK (TRS)[2]
ST INPUT (9–12)	MAX MIN	10 kΩ		–34 dB (15.5 mV) +10 dB (2.45 V)	–14 dB (155 mV) +30 dB (24.5 V)	PHONE JACK[3]
ST SUB IN (1, 2)				+4 dB (1.23 V)	+20 dB (7.75 V)	
TAPE IN (L, R)				–10 dBV (316 mV)	+10 dBV (3.16 V)	PHONO JACK
CH INSERT IN (1–4)				0 dB (775 mV)	+20 dB (7.75 V)	PHONE JACK (I/O)[4]
POWER AMP IN (L, R)				+4 dB (1.23 V)[5]	+18 dB (6.16 V)[5]	PHONE JACK[3]

1. Sensitivity is the lowest level that can produce an output of +4 dB (1.23 V) or the nominal output level when the unit is set at maximum gain. (All fader and level controls are at maximum position.)
2. Balanced. (T=HOT, R=COLD, S=GND)
3. Unbalanced.
4. Unbalanced. (T=OUT, R=IN, S=GND)
5. POWER AMP level control= maximum (+4)
• In these specifications when dB represents a specific voltage, 0 dB is referenced to 0.775 Vrms, 0 dBV is referenced to 1 Vrms.

● Output specifications

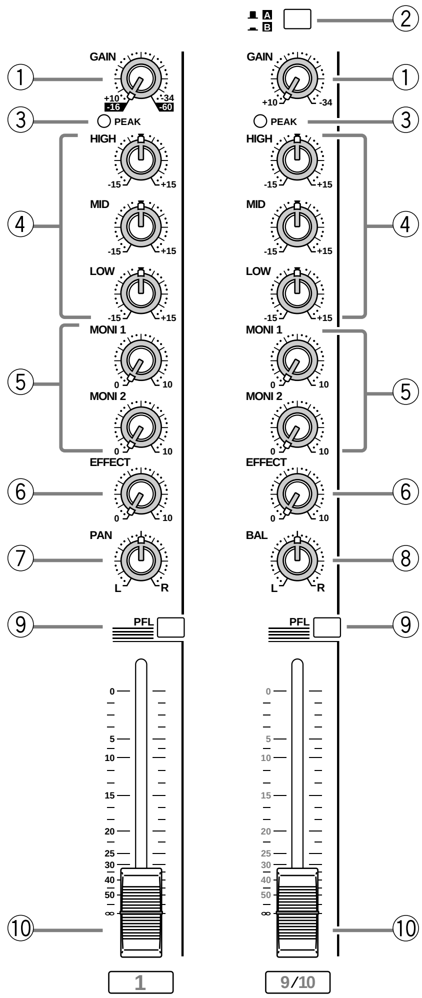
Output terminals		Actual source impedance	For use with nominal	Output level		Connectors on mixer
				Nominal	Max. before cliping	
ST OUT 1, 2 (L/R)		150Ω	600Ω Lines	+4 dB (1.23 V)	+20 dB (7.75 V)	PHONE JACK (TRS)[1]
MONO OUT						
EFFECT SEND						
MONITOR OUT 1, 2						
REC OUT (L/R)		600Ω	10 kΩ Lines	–10 dBV (316 mV)	+10 dBV (3.16 V)	PHONO JACK
CH INSERT OUT (1–4)				0 dB (775 mV)	+20 dB (7.75 V)	PHONE JACK (I/O)[2]
C-R/PHONES OUT	for PHONES	100Ω	40Ω Phones	3 mW	100 mW	ST PHONE JACK[3]
	for C-R OUT		10 kΩ Lines	+4 dB (1.23 V)	+20 dB (7.75 V)	
SPEAKER OUT 1, 2 (L/R)		0.1Ω	4/8Ω Speaker	300 W/4		PHONE JACK[4]
BRIDGE OUT			8Ω Speaker	600 W/8		PHONE JACK[5]

1. Impedance balaned. (T=HOT, R=COLD, S=GND)
2. Unbalanced. (T=OUT, R=IN, S=GND)
3. Unbalanced. (T=L, R=R, S=GND)
4. Unbalanced.
5. Balanced. (T=HOT, S=COLD)
• In these specifications when dB represents a specific voltage, 0 dB is referenced to 0.775 Vrms, 0 dBV is referenced 1 Vrms.

PANEL LAYOUT

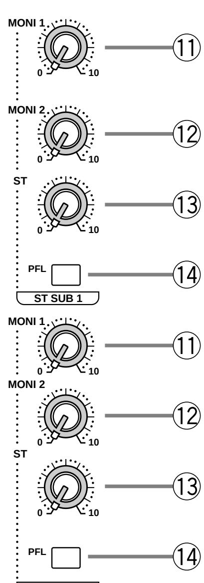
Control Panel

• Channel Control Section



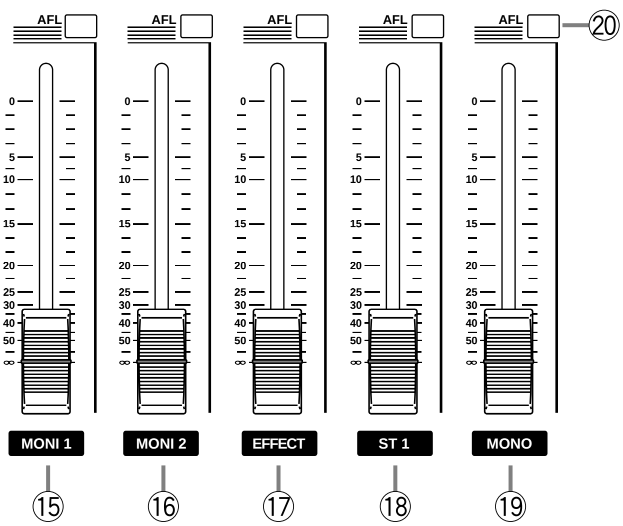
① GAIN control
② A/B switch (Channels 9/10~11/12 only)
③ PEAK indicator
④ Equalizer controls (HIGH, MID, LOW)
⑤ Monitor 1/2 controls (MONI 1/2)
⑥ Effect control (EFFECT)
⑦ PAN (panpot) control (Channels 1~8)
⑧ BAL (balance) control (Channels 9/10~11/12)
⑨ PFL (pre-fader listen) switch
⑩ Channel fader

• Stereo Sub Input Section



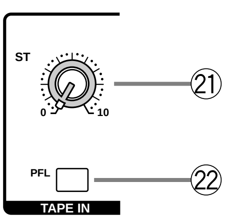
⑪ MONI 1 (monitor 1) control
⑫ MONI 2 (monitor 2) control
⑬ ST (stereo) control
⑭ PFL (pre-fader listen) switch

• Master Control Section



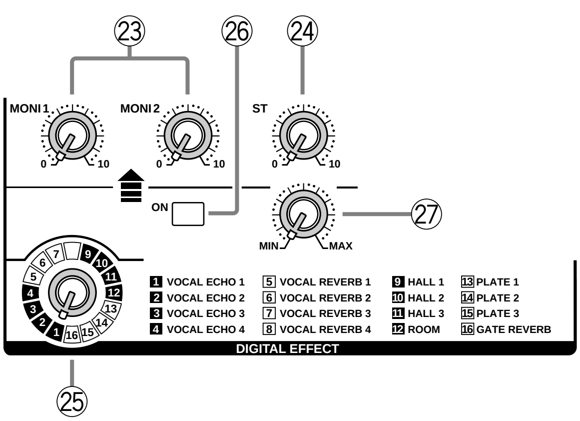
⑮ **MONI 1 (monitor 1) fader**
⑯ **MONI 2 (monitor 2) fader**
⑰ **EFFECT fader**
⑱ **ST 1 (stereo 1) fader**
⑲ **MONO (monaural) fader**
⑳ **AFL (after fader listen)**

• Tape in Section



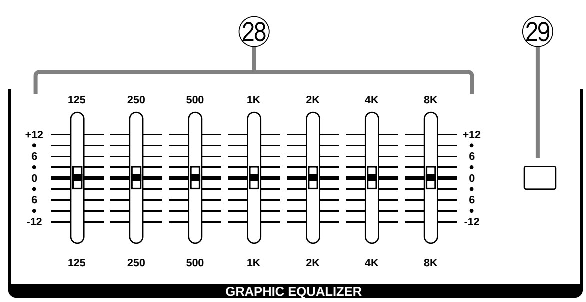
㉑ **ST (stereo) control**
㉒ **PFL (pre-fader listen) switch**

• Digital effect Section



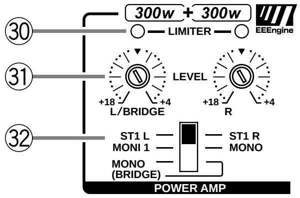
㉓ **MONI 1/2 (monitor 1/2) control**
㉔ **ST (stereo) control**
㉕ **PROGRAM selector**
㉖ **ON switch**
㉗ **PARAMETER control**

• Graphic equalizer Section



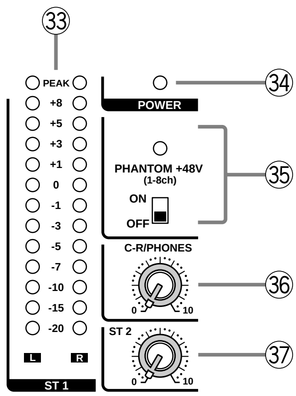
㉘ **Graphic equalizer**
㉙ **ON switch**

• Power amp Section



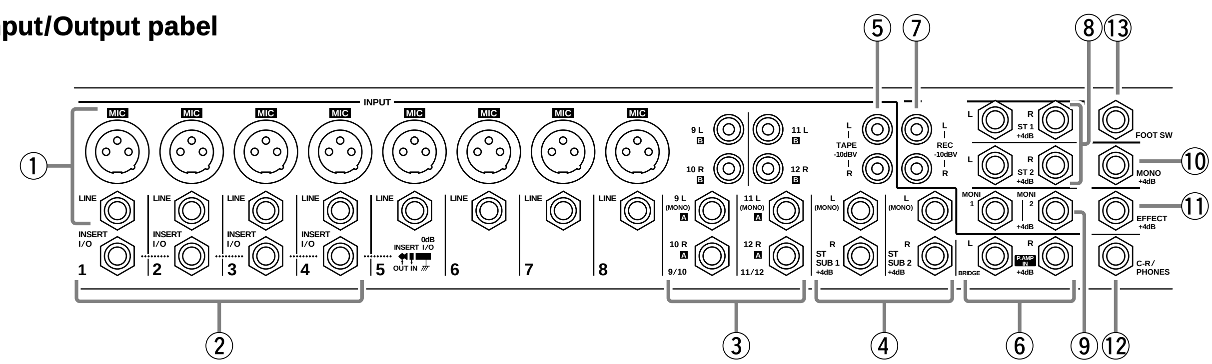
㉚ LIMITER indicator
㉛ LEVEL controls
㉜ Power amp select switch

• Other indicators and controls



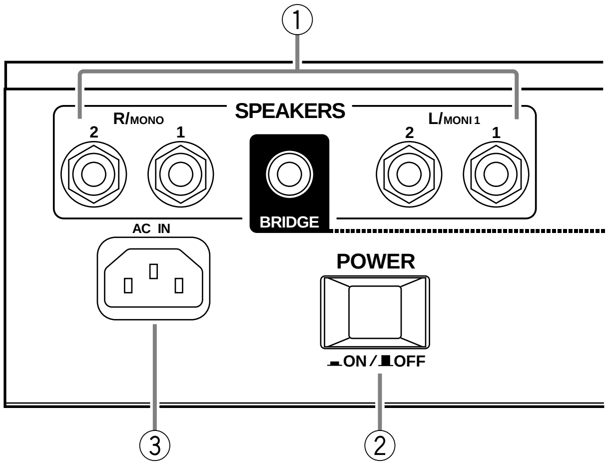
㉝ Peak level indicator
㉞ POWER indicator
㉟ PHANTOM (+48V) switch and indicator
㊱ C-R/PHONES (control room/headphones)control
㊲ ST 2 (stereo 2) control

• Input/Output pabel



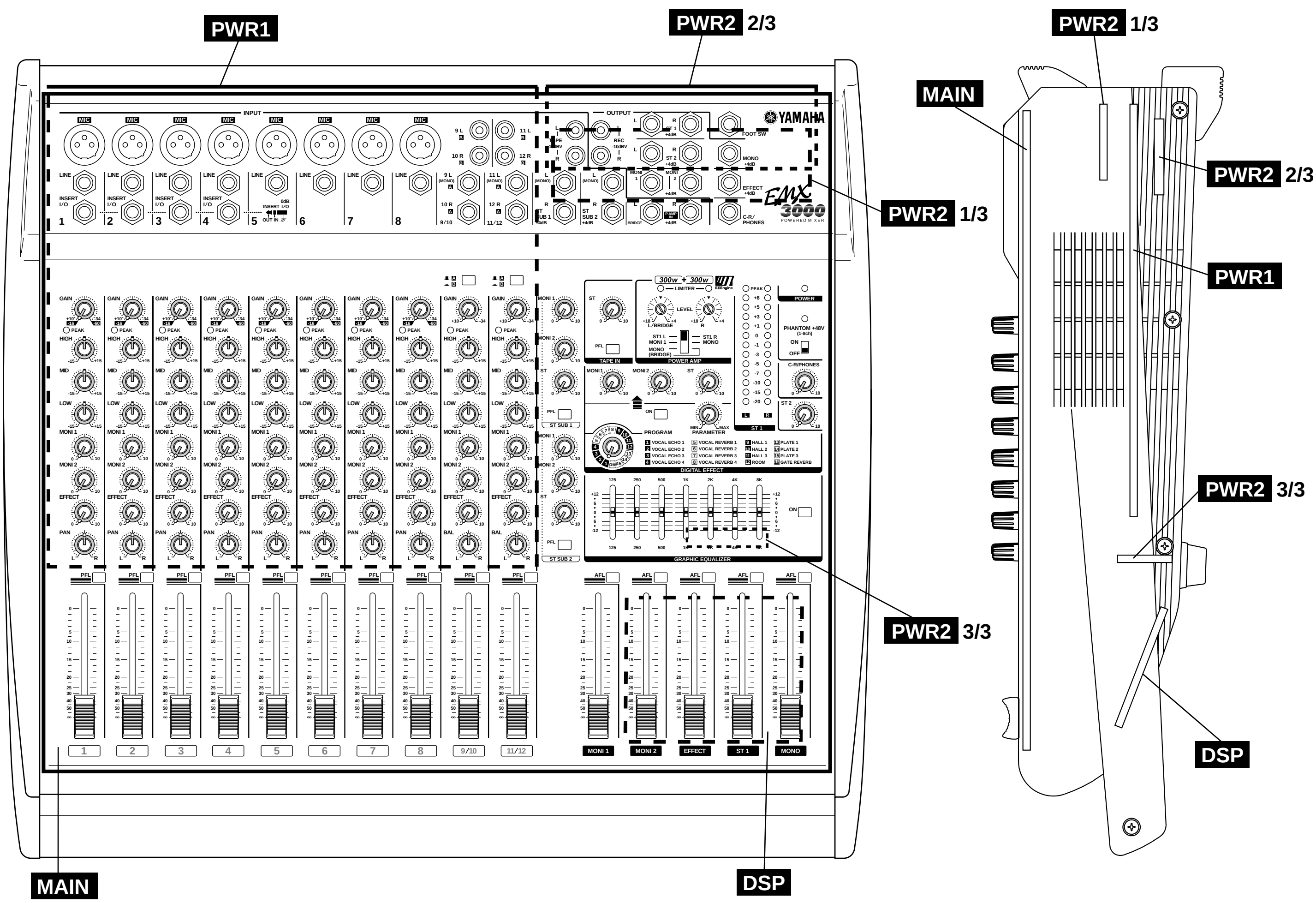
① Channel input jacks (MIC, LINE) 1~8
② INSERT I/O (insert) jacks 1~4
③ Channel input jacks 9~12A
Channel input jacks 9~12B
④ ST SUB 1 (stereo sub 1) jacks
ST SUB 2 (stereo sub 2) jacks
⑤ TAPE jacks
⑥ P.AMP IN (power amp input) jacks
⑦ REC (record) jacks
⑧ ST 1 (stereo 1) jacks
ST 2 (stereo 2) jacks
⑨ MONI 1 (monitor 1) jack
MONI 2 (monitor 2) jack
⑩ MONO (monaural) jack
⑪ EFFECT jack
⑫ C-R/PHONES (control room/headphones) jack
⑬ FOOT SW (foot switch) jack

- **Rear panel**

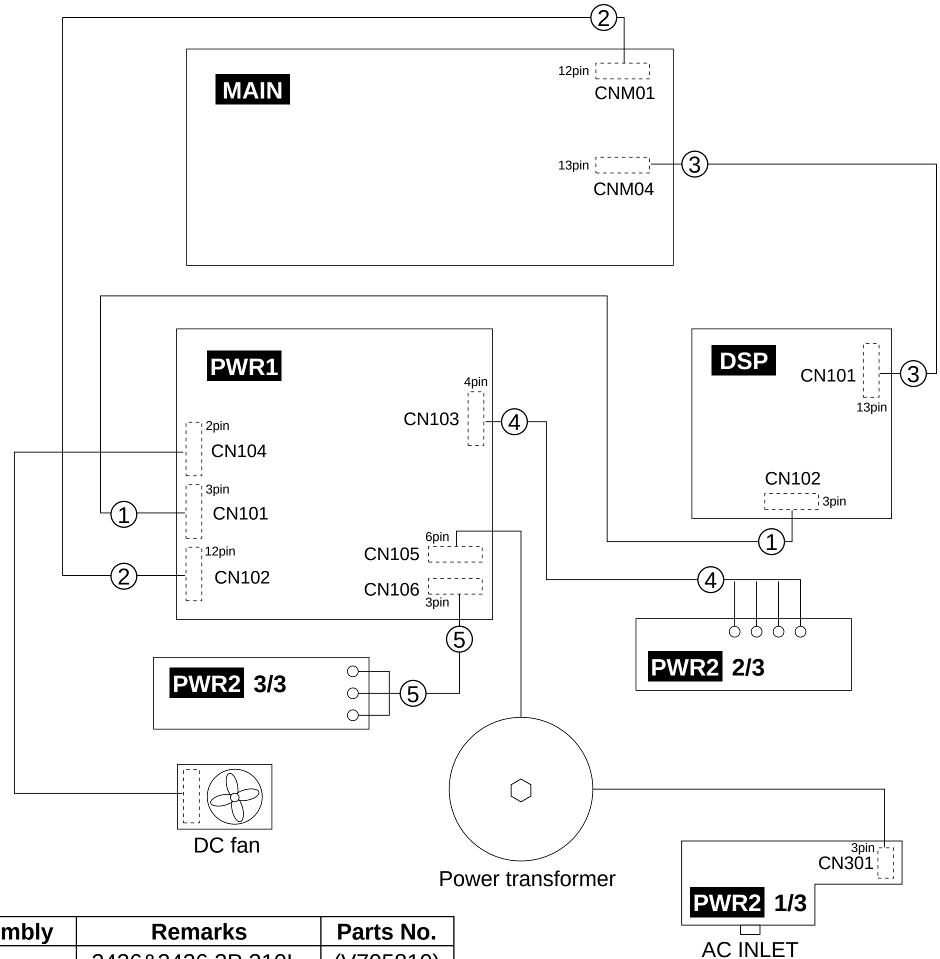


① SPEAKERS (speaker output) jacks
② POWER switch
③ AC inlet

CIRCUIT BOARD LAYOUT

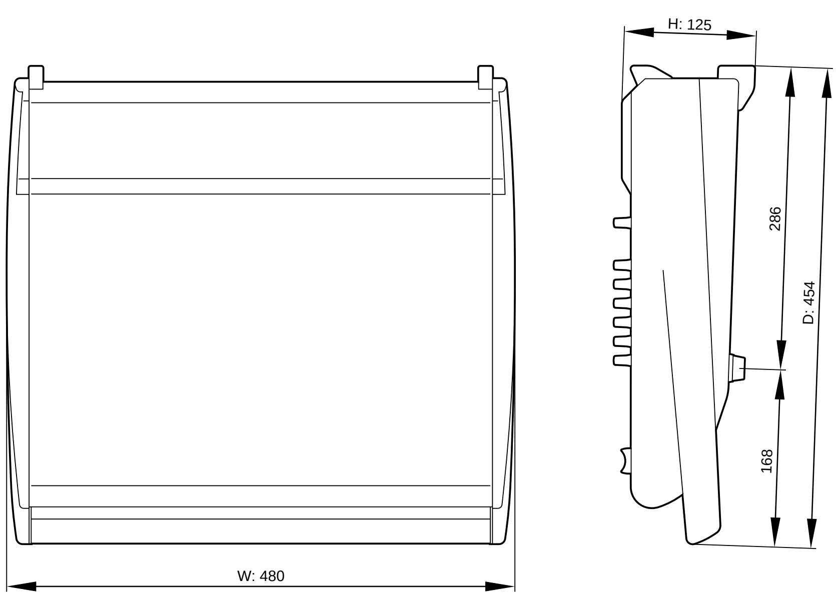


WIRING



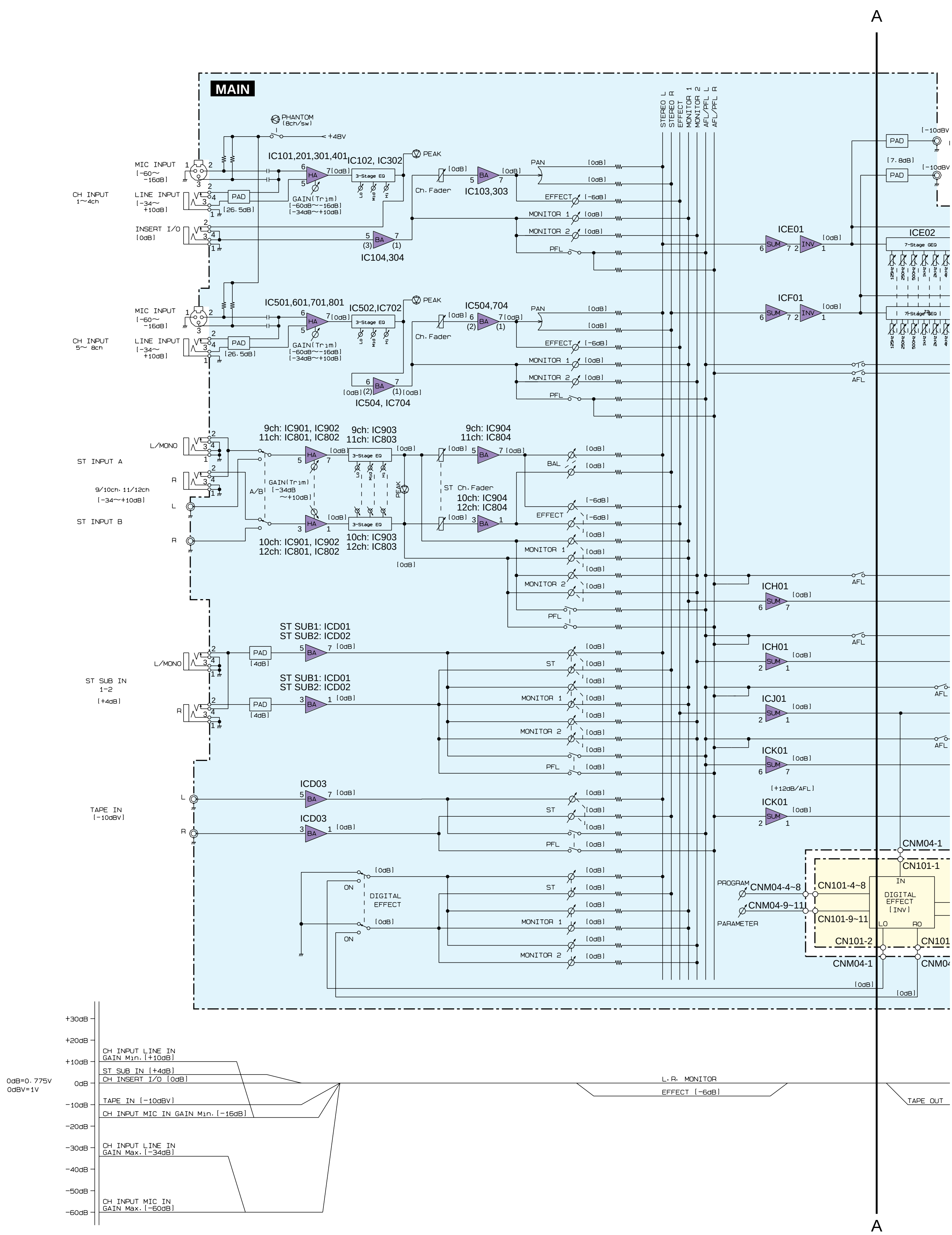
Location	Connector Assembly	Remarks	Parts No.
①	DSP-PWR1	2426&2426 3P 210L	(V705810)
②	MAIN-PWR1	2426&2426 12P	(V705820)
③	MAIN-DSP	2426&2426 13P	(V705830)
④	PWR1-PWR2 2/3	B&C #18 4P	(V702070)
⑤	PWR1-PWR2 3/3	B&C #18 3P	(V702080)

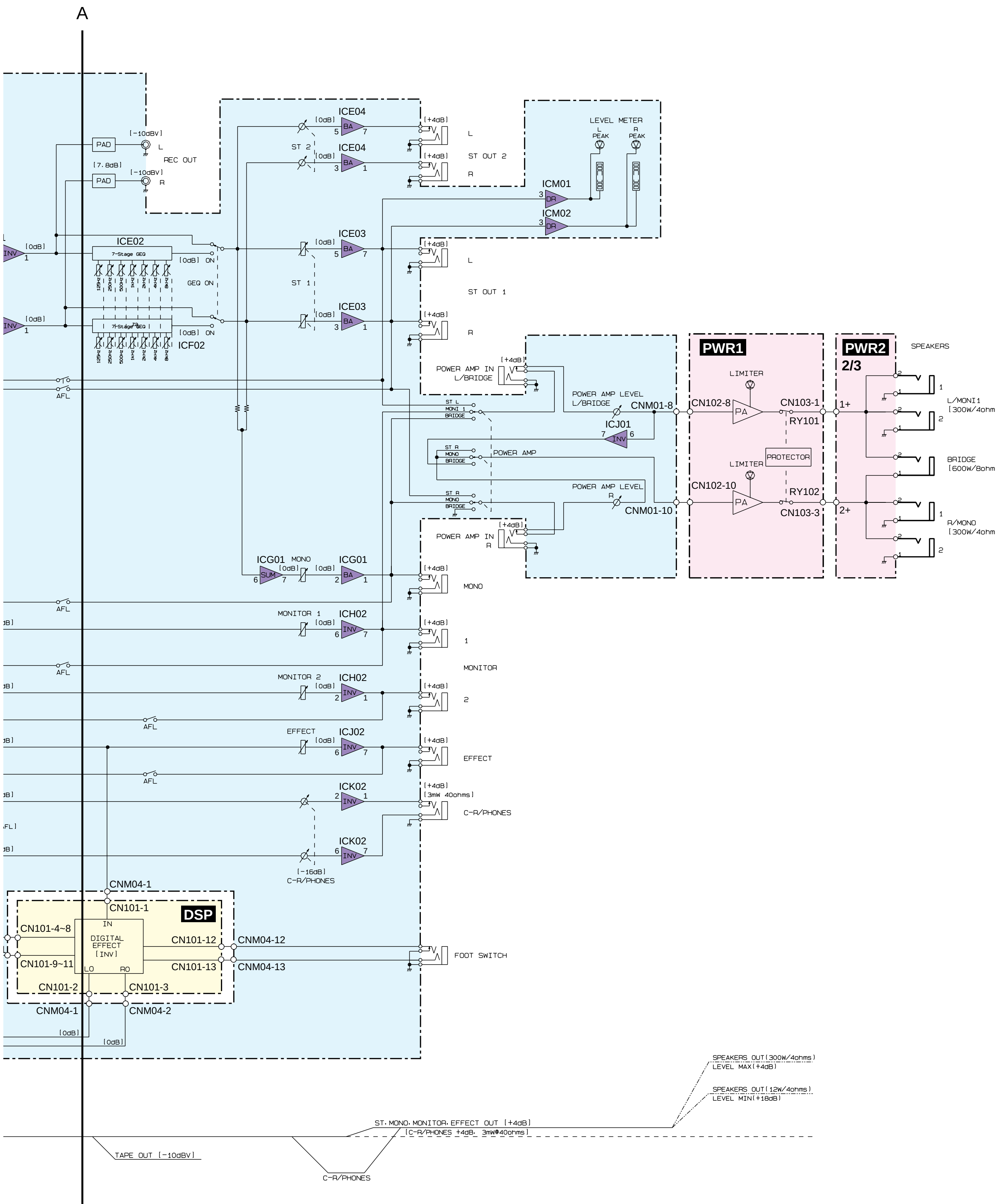
DIMENSIONS



Units: mm

BLOCK & LEVEL DIAGRAM



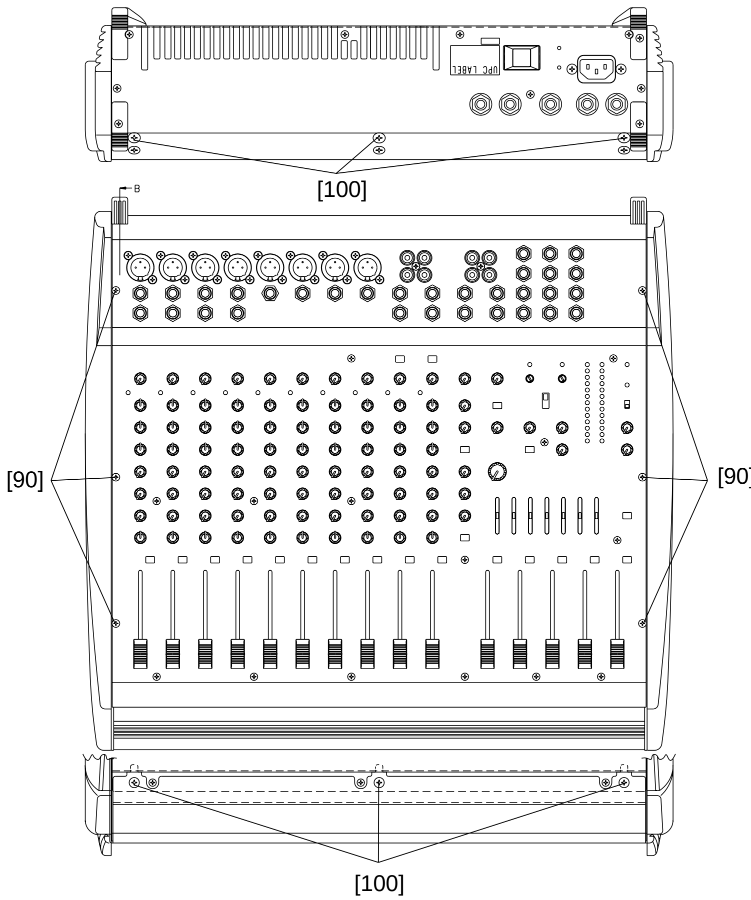


A
REC OUT
PAD
[-10dBV]
[7.8dB]
L
R
ICE04
ICE03
ICE02
ICF02
7-Stage GEQ
GEQ ON
[0dB] ON
ST 2
ST 1
ST OUT 2
ST OUT 1
[+4dB]
LEVEL METER
L PEAK
R PEAK
ICM01
ICM02
POWER AMP IN L/BRIDGE
POWER AMP IN R
POWER AMP LEVEL L/BRIDGE
POWER AMP LEVEL R
POWER AMP
ST L
MONI 1
BRIDGE
ST R
MONO
CNM01-8
CNM01-10
ICJ01
PWR1
PWR2 2/3
LIMITER
PROTECTOR
CN102-8
CN102-10
CN103-1
CN103-3
RY101
RY102
1+
2+
SPEAKERS
L/MONI1 [300W/4ohm]
BRIDGE [600W/8ohm]
R/MONO [300W/4ohm]
AFL
ICG01
ICH02
ICJ02
ICK02
MONITOR 1
MONITOR 2
MONITOR
EFFECT
[3mW 40ohms]
C-R/PHONES
[-16dB]
FOOT SWITCH
DSP
CNM04-1
CN101-1
CN101-4~8
CN101-9~11
CN101-12
CN101-13
CNM04-12
CNM04-13
CN101-2
CN101-3
CNM04-2
DIGITAL EFFECT [INV]
SPEAKERS OUT[300W/4ohms] LEVEL MAX[+4dB]
SPEAKERS OUT[12W/4ohms] LEVEL MIN[+18dB]
ST, MONO, MONITOR, EFFECT OUT [+4dB]
[C-R/PHONES +4dB, 3mW@40ohms]
TAPE OUT [-10dBV]

DISASSEMBLY PROCEDURE

1. Panel Assembly and Bottom Assembly (Manhour requirement: 5 min.)

1-1. After removing the six (6) screws marked [90] and six (6) screws marked [100], lift the rear side of the assembly and remove it from claws on the front. (Fig. 1)



[90]: Bind Head Tapping Screw-B 3.0 X 6 MFZN2BL (EP600230)
[100]: Bind Head Tapping Screw-B 3.0 X 6 MFZN2BL (EG340190)

Fig.1

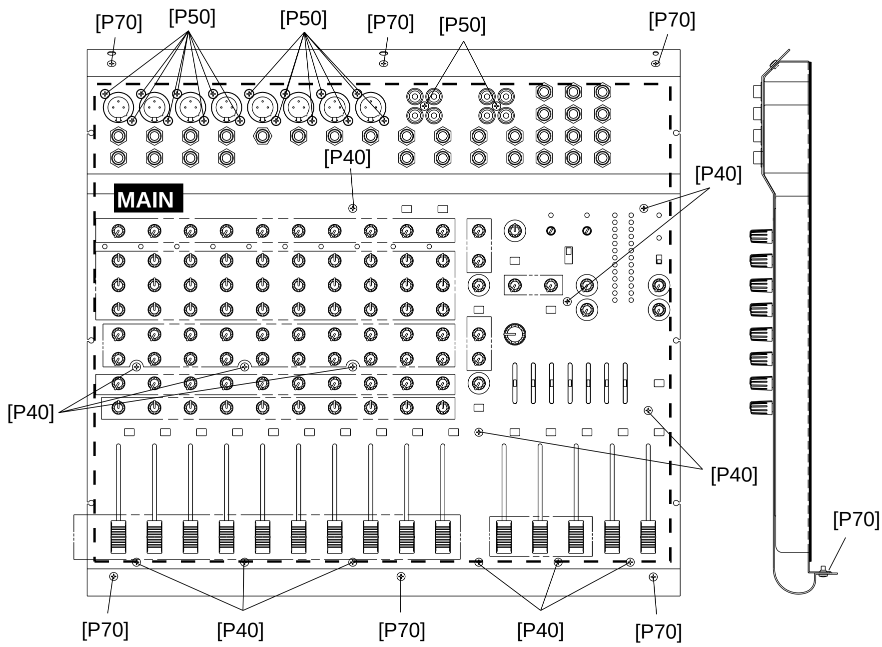
2. MAIN Circuit Board (Manhour requirement: 30 min.)

2-1. Remove the panel assembly and the bottom assembly. (See Procedure 1.)

2-2. Remove the three (3) screws marked [P70] from each side (front and rear). The shield plate can then be removed. (Fig. 2)

2-3. Remove all the knobs from the front panel and all the special hexagon nuts from the jacks.

2-4. Remove the fourteen (14) screws marked [P40] and eighteen (18) screws marked [P50] (cannon connector, pin jack). The MAIN circuit board can then be removed. (Fig. 2)



[P40]: Flat Head Tapping Screw-B 3.0 X 25 MFZN2BL (VV095300)
[P50]: Bonding Screw-B 3.0 X 8 MFZN2BL (VN413300)
[P70]: Bind Head Tapping Screw-B 3.0 X 6 MFZN2BL (EP600230)

Fig.2

3. PWR1 Circuit Board (Manhour requirement: 30 min.)

3-1. Remove the panel assembly and the bottom assembly. (See Procedure 1.)

3-2. Remove the four (4) screws marked [B130] and remove the PWR1 circuit board together with the isolation sheet. (Fig. 3)

3-3. Remove the twenty-eight (28) screws marked [B60]and four (4) screws marked [B50]. The PWR1 circuit board can then be separated from the isolation sheet. (Fig. 3)

4. DSP Circuit Board (Manhour requirement: 10 min.)

4-1. Remove the panel assembly and the bottom assembly. (See Procedure 1.)

4-2. Remove each PCB support at four (4) locations. The DSP circuit board can then be removed. (Fig. 3)

5. PWR2 3/3 Circuit Board (Manhour requirement: 10 min.)

5-1 Remove the panel assembly and the bottom assembly. (See Procedure 1.)

5-2. Remove the one (1) screw marked [B75] and the electrolytic capacitor holder. The PWR2 3/3 circuit board can then be removed. (Fig. 3)

6. DC fan (Manhour requirement: 10 min.)

6-1. Remove the panel assembly and the bottom assembly. (See Procedure 1.)

6-2. Remove the two (2) screws marked [B100]. The DC fan can then be removed. (Fig. 3)

7. Power transformer (Manhour requirement: 10 min.)

7-1. Remove the panel assembly and the bottom assembly. (See Procedure 1.)

7-2. Remove the hexagonal bolt. The power transformer can then be removed. (Fig. 3)
(See Fig.3 for drawing direction of wiring assembly.)

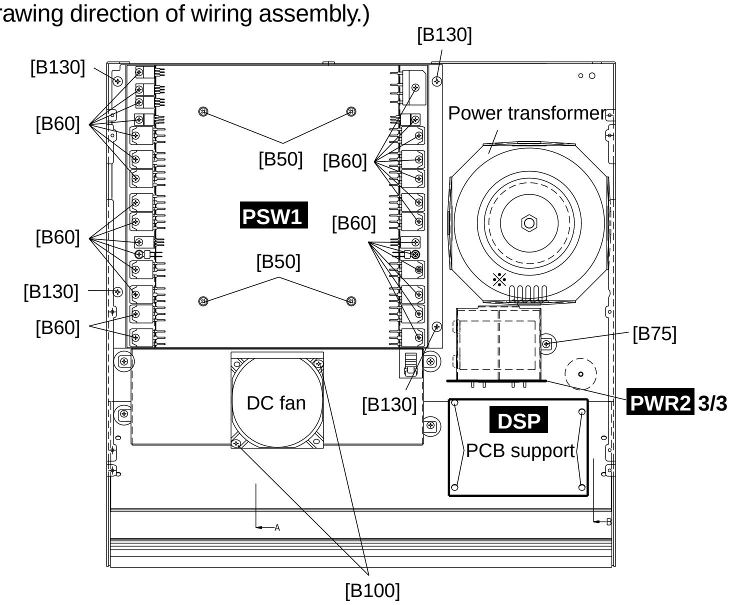


Fig.3

[B50]:Bind Head Screw SP 3.0 X 8 MFZN2Y (FG330290)
[B60]:Pan Head Screw SPK 3.0 X 12 MFZN2Y (VJ470900)
[B75]:Bind Head Tapping Screw-B 3.0 X 6 MFZN2BL (EP600230)
[B100]:Bind Head Tapping Screw-B 4.0 X 8 MFZN2BL (EG340190)
[B130]:Bind Head Tapping Screw-B 4.0 X 8 MFZN2BL (EG340190)

8. PWR2 2/3 Circuit Board (Manhour requirement: 15 min.)

8-1. Remove the panel assembly and the bottom assembly. (See Procedure 1.)

8-2. Remove the five (5) special hexagonal nuts and one (1) screw marked [R30] from the rear panel. The PWR2 2/3 circuit board can then be remove. (Fig. 4)

9. PWR2 1/3 Circuit Board (Manhour requirement: 15 min.)

9-1. Remove the panel assembly and the bottom assembly. (See Procedure 1.)

9-2. Remove the two (2) screws marked [R60], PSW knob, PSW escussion and the 2 screws marked [R20]. The PWR2 1/3 circuit board can then be removed.

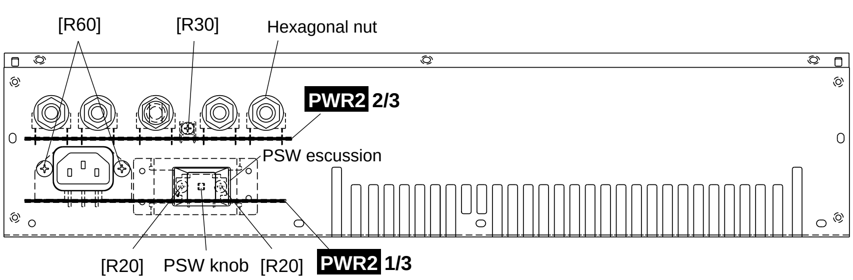


Fig.4

[R20]:Bind Head Screw 3.0 X 8 MFZN2BL (VB659000)
[R30]:Bonding Screw-B 3.0 X 8 MFZN2BL (EG413300)
[R60]:Bind Head Tapping Screw-B 4.0 X 8 MFZN2BL (EG340190)

LSI PIN DESCRIPTION

• ZFX-2 (XY297A00) CPU

DSP: IC105

PIN No.	NAME	I/O	FUNCTION
1	ED2	I/O	External Memory and I/O Data Bus
2	ED3	I/O	
3	ED4	I/O	
4	ED5	I/O	
5	ED6	I/O	
6	ED7	I/O	
7	VSS	S	Ground
8	VDD	S	Power Supply
9	CLKM0	I	Clock Mode
10	CLKM1	I	

	1	3	6	PLL BYPASS
CLKM0	0	1	0	1
CLKM1	0	0	1	1

PIN No.	NAME	I/O	FUNCTION
11	TMS	I	TAP(Test Access Port) Mode Select
12	TDI	I	TAP Data Input
13	TCK	I	TAP Clock
14	CLKIN	I	Master Clock
15	VSS	S	Ground
16	VDD	S	Power Supply
17	CLKO	O	Machine Clock Output
18	EA12/ED8	I/O	External SRAM and ROM Address Bus/ External DRAM and I/O Data Bus
19	EA13/ED9	I/O	
20	EA14/ED10	I/O	
21	EA15/ED11	I/O	
22	VSS	S	Ground
23	VDD	S	Power Supply
24	EA16/ED12	I/O	External SRAM and ROM Address Bus/ External DRAM and I/O Data Bus
25	EA17/ED13	I/O	
26	EA18/ES14	I/O	
27	EA19/ED15	I/O	
28	EA4/ED16	I/O	External Memory Address Bus/ External I/O Data Bus
29	EA5/ED17	I/O	
30	EA6/ED18	I/O	
31	EA7/ED19	I/O	
32	VSS	S	Ground
33	VDD	S	Power Supply
34	EA8/ED20	I/O	External Memory Address Bus/ External I/O Data Bus
35	EA9/ED21	I/O	
36	EA10/ED22	I/O	
37	EA11/ED23	I/O	
38	TEST0	I	Test Mode Control
39	TEST1	I	
40	TEST2	I	
41	TEST3	I	
42	/BIO	I	Separate Control Input
43	/INT1	I	Interrupt 1
44	ARBC1	I	Audio Data Receive Unit 1 bit Clock
45	ARBC2	I	Audio Data Receive Unit 2 bit Clock
46	AX1	O	Audio Data Transmitt Unit 1 Data Output
47	AX2	O	Audio Data Transmitt Unit 2 Data Output
48	AX3	O	Audio Data Transmitt Unit 3 Data Output
49	VSS	S	Ground
50	VDD	S	Power Supply
51	HX/SDA	I/O/Z	Host Interface Data Output/I2C Bus Data
52	/EMPTY	O/Z	CMEM Update Buffer and HR Resistor Empty Flag Output

PIN No.	NAME	I/O	FUNCTION
53	AXLR2	I	Audio Data Transmitt Unit 2/3 Left and Right Channel Frame Frequency Signal
54	AR1	I	Audio Data Receive Unit 1 Data Input
55	AR2	I	Audio Data Receive Unit 2 Data Input
56	HRBCK/SA0	I	Host Interface Receive Clock / I2C Bus Address 0
57	HR/SA1	I	Host Interface Data Input/ I2C Bus Address 1
58	HRS/SA2	I	Host Interface Receive Data Frame Frequency Signal/ I2C Bus Address 2
59	VSS	S	Ground
60	VDD	S	Power Supply
61	HXBCK/SCL	I	Host Interface Transmitt Clock/ I2C Bus Clock
62	HXS/SA3	I	Host Interface Transmitt Data Frame Frequency Signal/ I2C Bus Address 3
63	/CS/SA4	I	Host Interface Chip Select/ I2C Bus Address 4
64	HBCKS/SA5	I	HRBCK/HXBCK Active Edge Select/ I2C Bus Address 5
65	I2CSEL	I	Host Interface Mode Select
66	VSS	S	Ground
67	VDD	S	Power Supply
68	AXBC1	I	Audio Data Transmitt Unit 1 bit Clock
69	AXBC2	I	Audio Data Transmitt Unit 2/3 bit Click
70	AXLR1	I	Audio Data Transmitt Unit 1 Left and Right Channel Frame Frequency Signal
71	DIVS	O	Machine Clock Output then 8 min.
72	/LAV	O	Ruch ALU Overflow Frag Output
73	/LMV	O	Ruch MAC Overflow Frag Output
74	/DRDY	O/Z	Host Interface Transmitt Data Ready Frag Output
75	EMU0	I/O/Z	Emurator Interrupt 0
76	EMU1	I/O/Z	Emurator Interrupt 1
77	TDO	O/Z	TAP(Test Access Port) Data Output
78	DIV512	O	Machine Clock then512 min.
79	ARLR1	I	Audio Data Receive Unit 1 Left and Right Channel Frame Frequency Signal
80	ARLR2	I	Audio Data Receive Unit 2 Left and Right Channel Frame Frequency Signal
81	HDIR/SA6	I	Host Interface Data Format Select/ I2C Bus Address 6
82	SEL5V3V	I	Input Level Control
83	/MUTE	I	Mute Control
84	/TRST	I	TAP(Test Access Port) Reset
85	/RS	I	Hardware Reset
86	VSS	S	Ground
87	VDD	S	Power Supply
88	/IOE	O	External I/O Enable
89	/RAS/SRCS	O	External DRAM Low Address Strove/External SRAM Chip Select
90	/CAS/SROE	O	External DRAM Culumn Address Strove/External SRAM Output Enable
91	/ROME	O	External ROM Enable
92	/WE	O	External Memory and I/O Wright Enable
93	EA0	O	External Memory and I/O Address Bus
94	EA1	O	
95	EA2	O	
96	EA3	O	
97	VSS	S	Ground
98	VDD	S	Power Supply
99	ED0	I/O	External Memory and I/O Data Bus
100	ED1	I/O	

• PCM3001E/2K (X0053A00) ADA

DSP: IC104

PIN No.	NAME	I/O	FUNCTION	PIN No.	NAME	I/O	FUNCTION
1	VINL	I	ADC Analog Input, Lch	15	VOUTL	O	DAC Analog Output, Lch
2	Vcc1		ADC Analog Power Supply	16	LRCIN	I	Sampling Clock Input (fs)
3	AGND1		ADC Analog GND	17	BCKIN	I	Bit Clock Input
4	VREFL		ADC Reference decouple, Lch	18	DIN	I	Audio Data Input
5	VREFR		ADC Reference Decouple, Rch	19	DOUT	O	Audio Data Output
6	VINR	I	ADC Analog Input, Rch	20	XTI	I	Crystal Oscillator Input, External System Clock Input
7	CINPR		ADC Anti-areasing Filter Capacitor (+), Rch	21	XTO	O	Crystal Oscillator Output
8	CINNR		ADC Anti-areasing Filter Capacitor (-), Rch	22	CLKIO	I/O	Crystal Oscillator Buffer Output, External System Clock Input
9	CINNL		ADC Anti-areasing Filter Capacitior (-), Lch	23	VDD		Digital Power Supply
10	CINPL		ADC Anti-areasing Filter Capacitor (+), Rch	24	DGND		Digital GND
11	VCOM		DAC Center Voltage Decouple	25	FMT2	I	Audio Data Format 2 (Pull up to 70k ohm typical)
12	VOUTR	O	DAC Analog Output, Rch	26	FMT1	I	Audio Data Format 1 (Pull up to 70k ohm typical)
13	AGND2		DAC Analog GND	27	FMT0	I	Audio Data Format 0 (Pull up to 70k ohm typical)
14	Vcc2		DAC Analog Power Supply	28	RSTB	I	Reset Input, Active "L" (Pull up to 70k ohm typical)

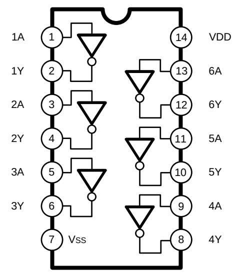
• UPD78082 (XZ312A00) MCU

DSP: IC102

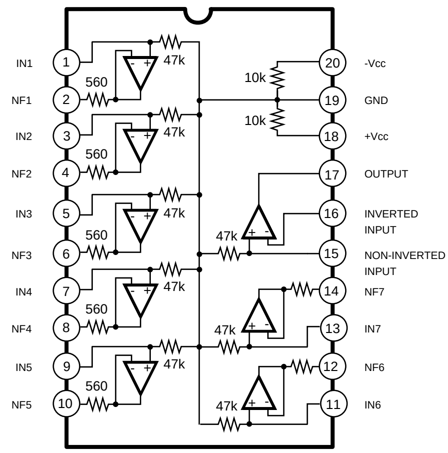
PIN No.	NAME	I/O	FUNCTION	PIN No.	NAME	I/O	FUNCTION
1	P12/ANI2	I/O	8 bits input/output port./A/D converter analog input.	23	NC	-	Not connect.
2	P13/ANI3	I/O	8 bits input/output port./A/D converter analog input.	24	P32	I/O	Port 3. 8 bits input/output port.
3	P14/ANI4	I/O	8 bits input/output port./A/D converter analog input.	25	P33	I/O	Port 3. 8 bits input/output port.
4	P15/ANI5	I/O	8 bits input/output port./A/D converter analog input.	26	P34	I/O	Port 3. 8 bits input/output port.
5	P16/ANI6	I/O	8 bits input/output port./A/D converter analog input.	27	P35/PCL	I/O	Port 3. 8 bits input/output port./Clock output.
6	P17/ANI7	I/O	8 bits input/output port./A/D converter analog input.	28	P36/BUZ	I/O	Port 3. 8 bits input/output port./Buzzer output.
7	P72/SCK2/ASCK	I/O	Port 7. 3 bits input/output port./Serial clock input/output of serial interface./Serial clock input for asynchronus serial interface.	29	P37	I/O	Port 3. 8 bits input/output port.
				30	P00	I	Input only
				31	P01/INTP1	I/O	4 bits input/output port./Effective edge (Rising edge, falling edge, both rising and falling edges) specifiable external interrupt input.
8	P71/SO2/TXD	I/O	Port 7. 3 bits input/output port./Serial data output for serial interface./Serial data output for asynchronus serial interface.				
9	P70/SI2/RXD	I/O	Port 7. 3 bits input/output port./Serial data input of serial interface./Serial data input for asynchronus serial interface	32	P02/INTP2	I/O	4 bits input/output port./Effective edge (Rising edge, falling edge, both rising and falling edges) specifiable external interrupt input.
10	P101/T16/T06	I/O	Port 10. 2 bits input/output port./External count clock input to 8 bits timer(TM6)./8 bits timer output.	33	P03/INTP3	I/O	4 bits input/output port./Effective edge (Rising edge, falling edge, both rising and falling edges) specifiable external interrupt input.
11	P100/T15/T05	I/O	Port 10. 2 bits input/output port./External count clock input to 8 bits timer(TM5)./8 bits timer output.				
12	P50	I/O	Port 5. 8 bits input/output port.	34	NC	-	Not connect
13	P51	I/O	Port 5. 8 bits input/output port.	35	RESET	I	System reset input
14	P52	I/O	Port 5. 8 bits input/output port.	36	IC(VPP)	-	Internal connect
15	P53	I/O	Port 5. 8 bits input/output port.	37	X2	-	Main system clock oscillator X'tal
16	P54	I/O	Port 5. 8 bits input/output port.	38	X1	I	Main system clock oscillator X'tal
17	VSS	I/O	Port 5. 8 bits input/output port.	39	VDD	-	Power Supply
18	P55	I/O	Port 5. 8 bits input/output port.	40	AVDD	-	A/D Converter Analog Power Supply
19	P56	I/O	Port 5. 8 bits input/output port.	41	AVREF	I	A/D Converter Power Supply Input
20	P57	I/O	Port 5. 8 bits input/output port.	42	AVSS	-	A/D Converter ground
21	P30	I/O	Port 3. 8 bits input/output port.	43	P10/ANI0	I/O	8 bits input/output port./A/D converter analog input.
22	P31	I/O	Port 3. 8 bits input/output port.	44	P11/ANI1	I/O	8 bits input/output port./A/D converter analog input.

IC BLOCK DIAGRAM

● **74HCU04DT** (XZ110A00)
INVERTER
DSP: IC101



● **M5229P** (XG203A00)
7-SEG. GRAPHIC
MAIN: ICE02, ICF02

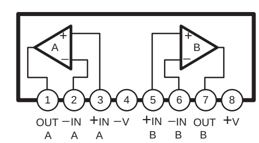


● **NJM2068L-D**(XM356A00)
OP AMP
MAIN: IC101–104, IC201, IC301–IC304, IC401, IC501–IC504, IC601, IC701–704, IC801, IC901–904, ICB01–04, ICD01–03, ICE01, ICH01, ICJ01,ICK01

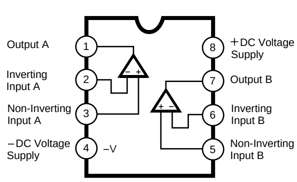
● **NJM4556AL**(XP844A00)
OP AMP
MAIN: ICK02

● **NJM4558L-D**(XQ212A00)
OP AMP
PWR1: IC101, IC201

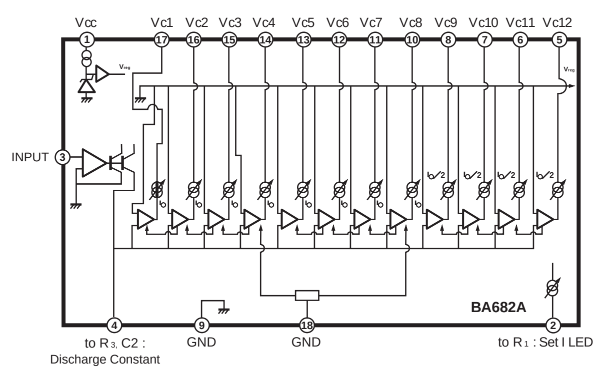
● **NJM4580L**(XF195A00)
OP AMP
MAIN: ICE03, ICE04, ICG01, ICH02, ICJ02



● **NJM4558MT-1** (IG103520)
OP AMP
DSP: IC103

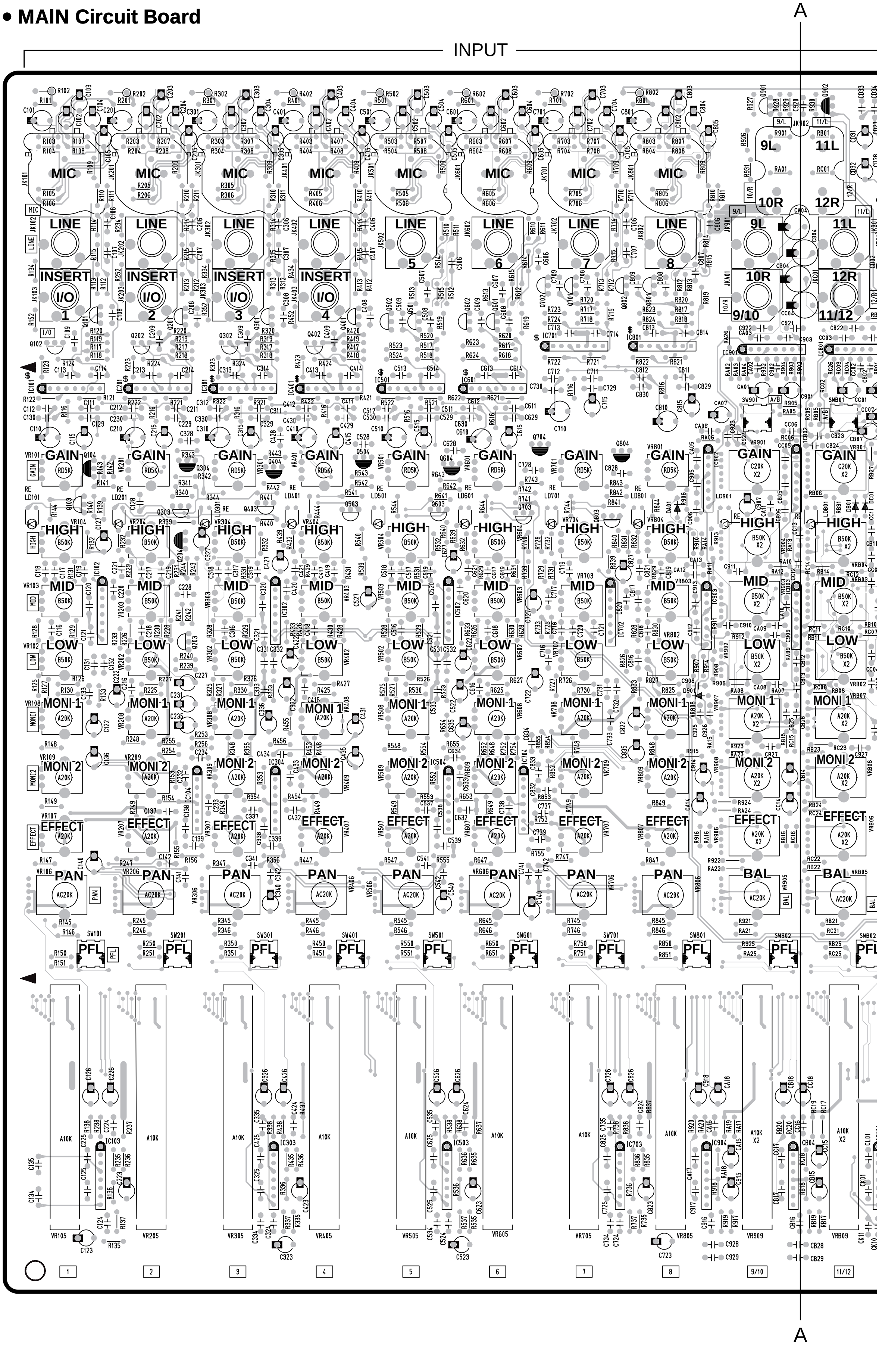


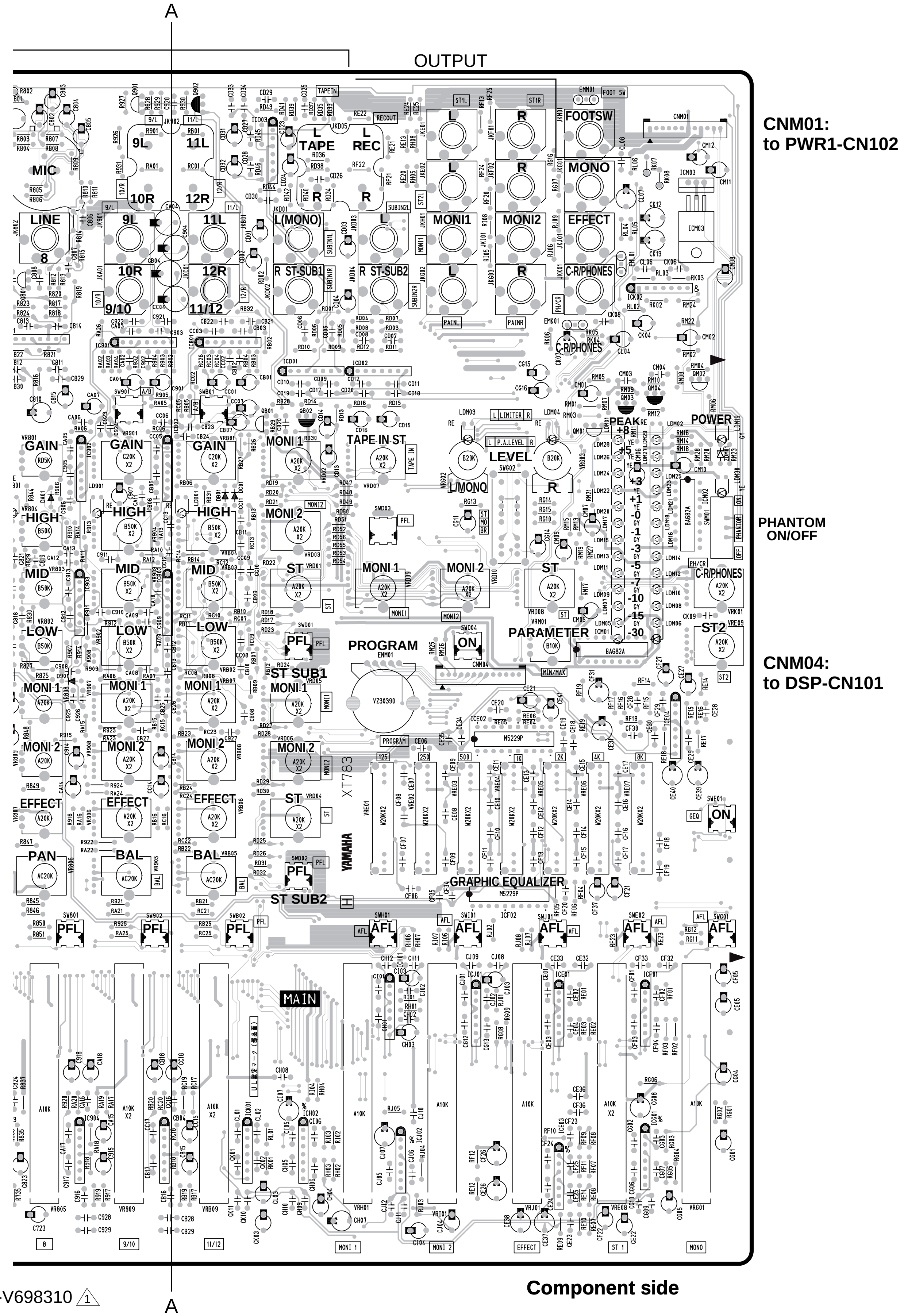
● **BA682A** (XS046A00)
LED LEVEL METER
MAIN: ICM01, ICM02



CIRCUIT BOARDS

• MAIN Circuit Board

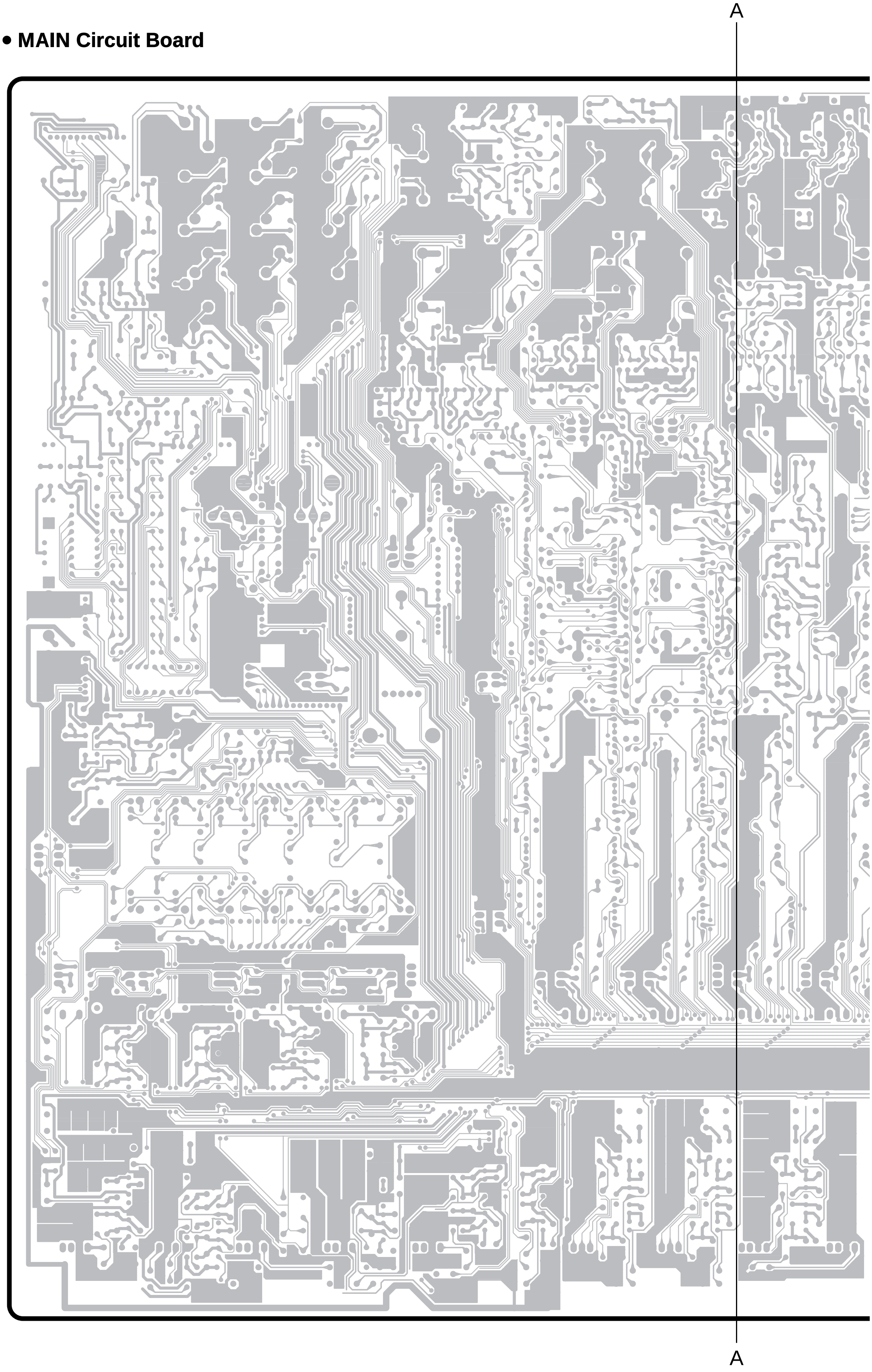


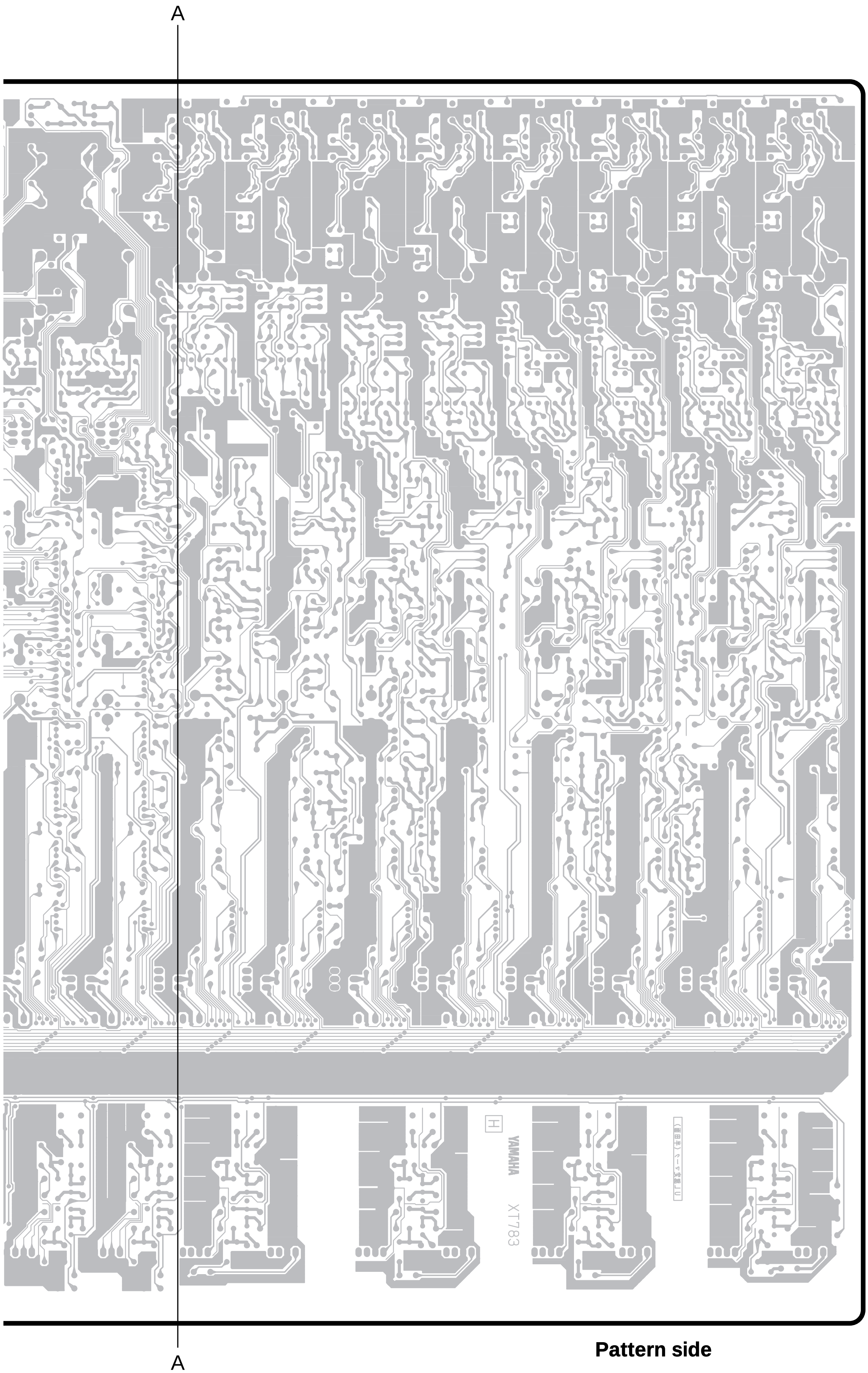


Component side

3NA-V698310 1

• **MAIN Circuit Board**

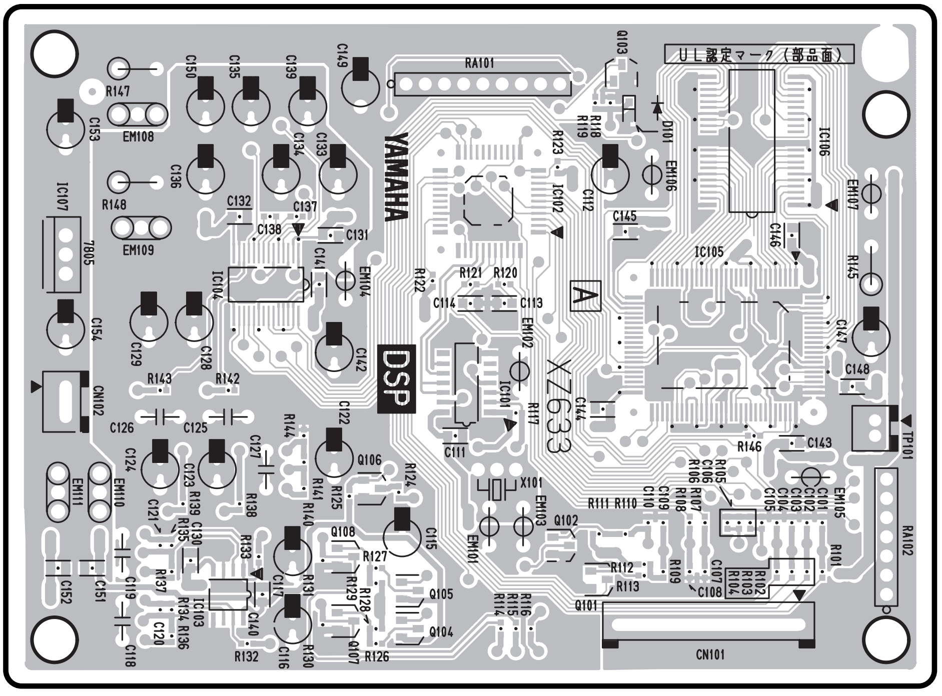




Pattern side

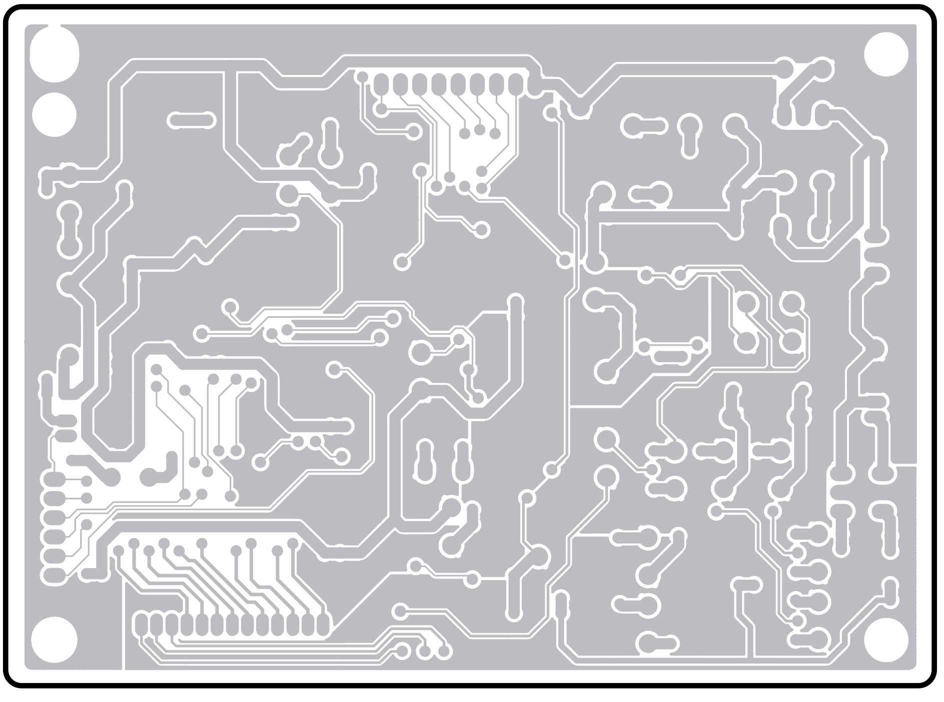
- **DSP Circuit Board**

CN102:
to PWR1-CN101



CN101: to MAIN-CNM04

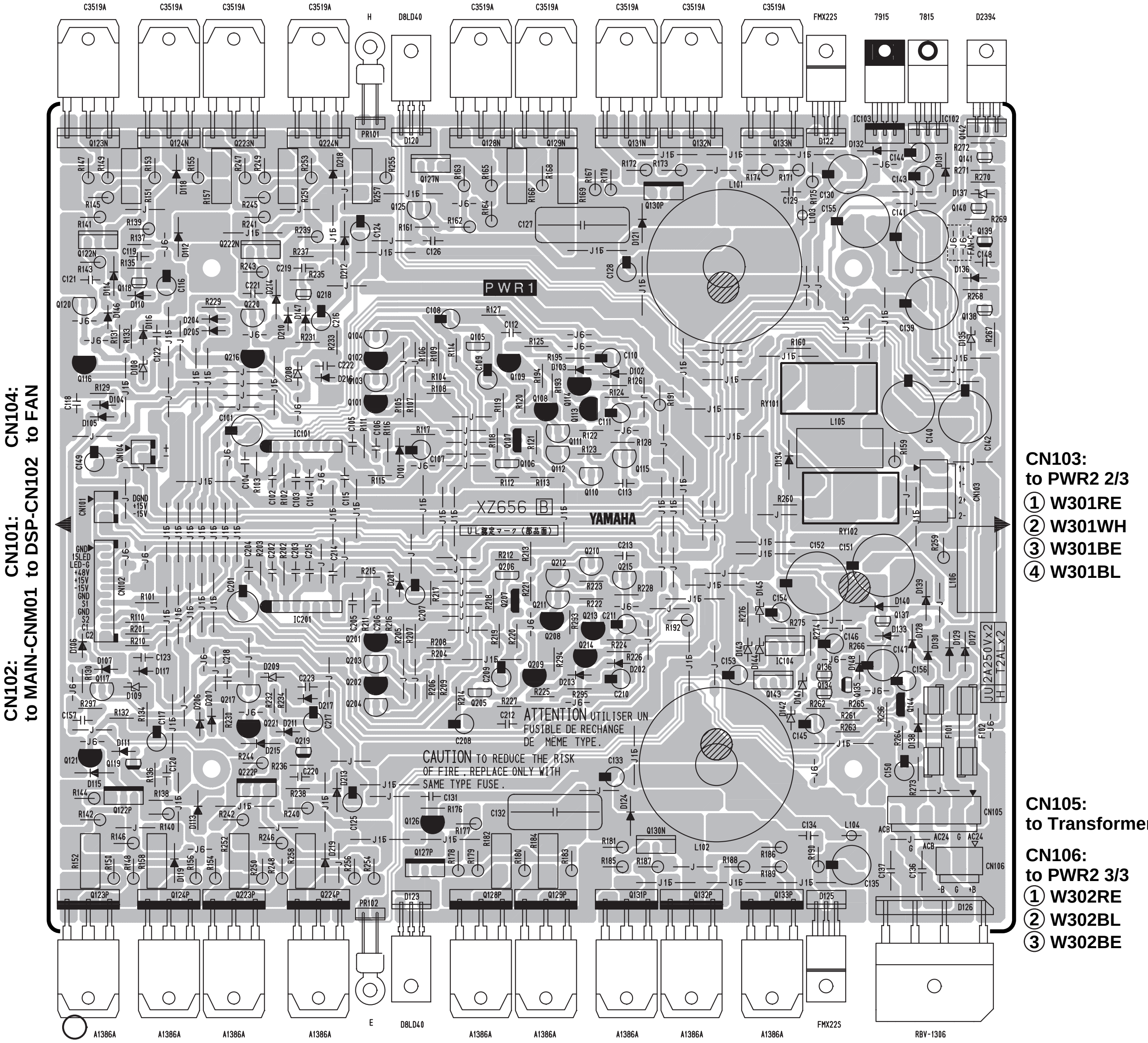
Component side



Pattern side

3NA-V698320 2

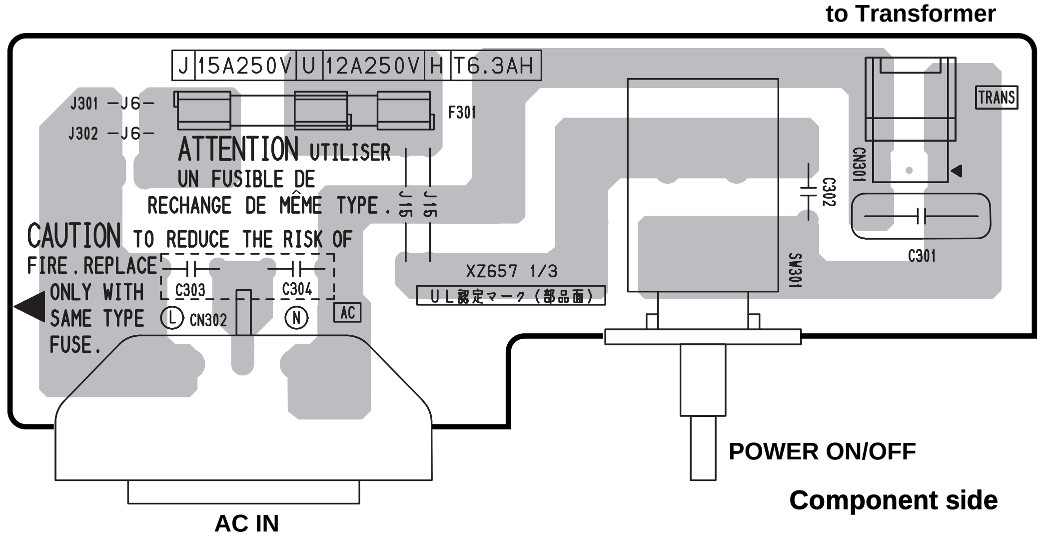
• **PWR1 Circuit Board**



Component side

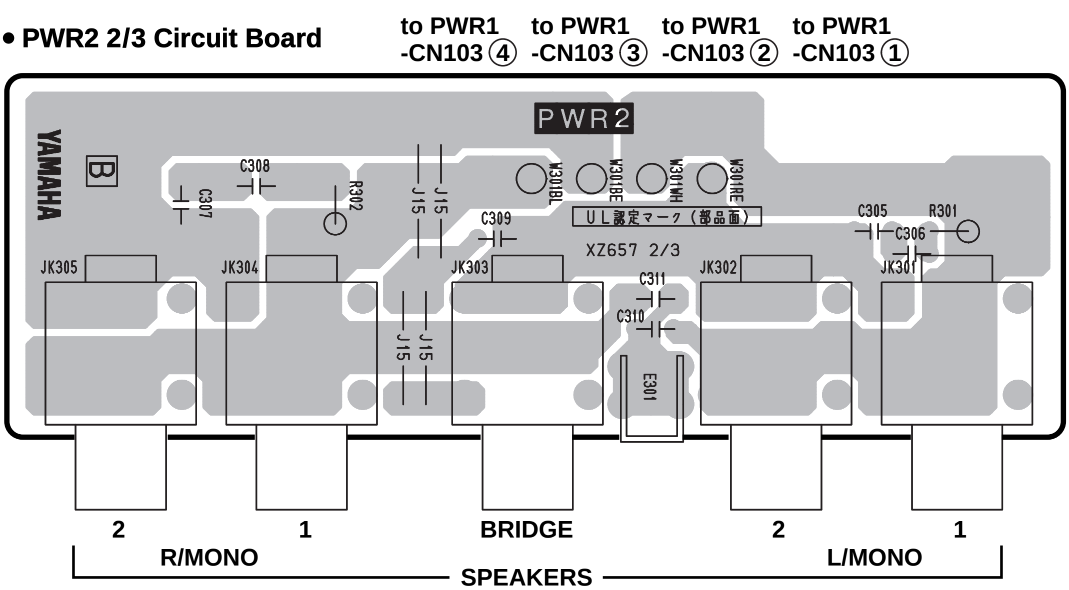
3NA-V698330 ⚠2

• **PWR2 1/3 Circuit Board**



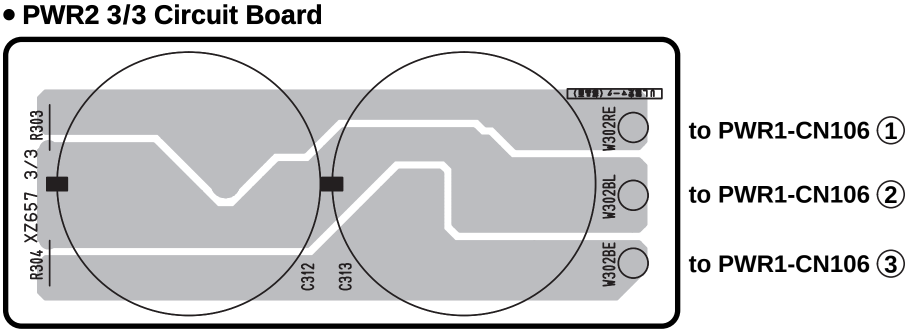
Component side

• **PWR2 2/3 Circuit Board**



Component side

• **PWR2 3/3 Circuit Board**



Component side

3NA-V698350 ⚠1

INSPECTIONS

A. INSPECTION OF MIXER SECTION

1. PREPARATIONS

- Unless otherwise specified, the signal to be applied should be 1kHz, -70dBs sine wave and the signal source impedance should be 150 ohm. Also, the load resistance at each output terminal should be of the following values.

CH INSERT OUT, REC OUT	10k ohm
ST1,ST2,MONO,MONO1,MONO2,EFFECT	600 ohm
C-R/PHONES	40 ohm

- The signal level used in this specification is 0 dBs=0.775V
- Unless otherwise specified, set the controls as specified in 1-1 to 1-8 below.

1-1 CH INPUT (CH1~8)

GAIN trim	Minimum
EQ(HIGH, MID, LOW) gain control	CENTER
MNITOR(1, 2)level control	Maximum
EFFECT level control	Maximum
PAN control	CENTER
Fader	Maximum
PFL switch	OFF

1-2 Stereo INPUT (9/10, 11/12)

A/B switch	A
GAIN trim	Minimum
EQ(HIGH, MID, LOW) gain control	CENTER
MONITOR(1, 2) level control	Maximum
EFFECT level control	Maximum
PAN control	CENTER
Fader	Maximum
PFL switch	OFF

1-3 ST SUB IN (1,2)

ST level control	Maximum
MONITOR(1,2) level control	Maximum
PFL switch	OFF

1-4 TAPE IN

ST level control	Maximum
PFL switch	OFF

1-5 DIGITAL EFFECT

ON/OFF switch	OFF
PROGRSM select switch	1
PARAMETER control	Maximum
ST level control	Maximum
MONITOR (1,2) level control	Maximum

1-6 MASTER

ST GRAPHIC EQUALIZER control	CENTER
GRAPHIC EQUALIZER ON switch	OFF
ST1, MONO, MONITOR (1, 2), EFFECT fader	Maximum
ST2, C-R/PHONES level control	Maximum
ST1, MONO, MONITOR (1, 2), EFFECT AFL switch	OFF

1-7 POWER AMP

POWER AMP switch ST1L-ST1R
POWER AMP (L/BRIDGE, R) level control Minimum

1-8 PHANTOM

PHANTOM switch OFF

1-9 Measuring equipment

- The oscillator connected to the balanced type input terminal should be balanced output type with 150 ohm output impedance.
- The input impedance of the oscilloscope, level meter, etc. should be 100k ohms or more.
- The DIN audio filer should be used to measure the noise level.

2. GAIN

In the state as described in 1 above, check that the output level within the range specified in Tables 2-1 to 2-7 can be obtained at each output terminal.

[Table 2-1] Input terminal CH1 to CH8 [Unit: dBs]

Input	Input level	GAIN Trim	INSERT OUT *2	ST1,2 OUT(L,R)	MONO OUT	MONI 1,2 OUT	EFFECT OUT	REC OUT (L,R)	C-R/PHONES OUT *3
MIC	-60	MAX	0 +/- 2	+1 +/- 2	+4 +/- 2	+4 +/- 2	+10 +/- 2	-10.8 +/- 2	+8.5 +/- 2
	-16	MIN	—	+1 +/- 2 ST1(L) *1	—	—	—	—	—
LINE	-34	MAX	—	+1 +/- 2 ST1(L) *1	—	—	—	—	—
	+10	MIN	—	+1 +/- 2 ST1(L) *1	—	—	—	—	—
INSERT *2	0	—	—	+1 +/- 2 ST1(L) *1	—	—	—	—	—

*1: Measure the display output only.
*2: Measure CH1 to CH4 only.
*3: Turn on the PFL switch of the channel to which the signal was input.

[Table 2-2] Input terminal CH9/10, 11/12 [Unit: dBs]

Input	Input level	A/B Switch	GAIN Trim	ST1 OUT (L,R)	MONI 1,2 OUT	EFFECT OUT	C-R/PHONES OUT *2
A-L/MONO	-34	A	MAX	+1 +/- 2	+7 +/- 2	+13 +/- 2	+8.5 +/- 2
A-R				+1 +/- 2 ST1(R) *1	+1 +/- 2 MONI 1 *1	+7 +/- 2	+8.5 +/- 2
A-L/MONO	+10		MIN	+1 +/- 2 ST1(L) *1	—	—	—
A-R				+1 +/- 2 ST1(R) *1	—	—	—
B-L	-34	B	MAX	+1 +/- 2 ST1(L) *1	—	—	—
B-R	+10		MIN	+1 +/- 2 ST1(R) *1	—	—	—

*1: Measure the display output only.
*2: Turn on the PFL switch of the channel to which the signal was input.

[Table 2-3] Input terminal ST SUB IN [Unit: dBs]

Input	Input level	ST1 OUT (L)	ST1 OUT (R)	MONI 1,2 OUT	C-R/PHONES OUT *1
L/MONO	+4	+4 +/- 2	+4 +/- 2	+7 +/- 2	+3.5 +/- 2 *2
R		—	+4 +/- 2	+1 +/- 2	+3.5 +/- 2 *2

*1: Turn on the PFL switch of the SUB IN to which the signal is input.
*2: The input level should be -6dBs.

[Table 2-4] Input terminal TAPE IN [Unit: dBs]

Input	Input level	ST1 OUT (L)	ST1 OUT (R)	C-R/PHONES OUT *1
L	-7.8	+4 +/- 2	—	+3.5 +/- 2 *2
R		—	+4 +/- 2	+3.5 +/- 2 *2

*1: Turn on the PFL switch.
*2: The input level should be -17.8dBs.

- In the state as described in 1 above, input the signal of the following level to MIC IN of CH1 and turn on each AFL switch. Then check that the output as described in [Table 2-5] is obtained at C-R/PHONES OUT (L, R).

[Table 2-5] AFL switch [Unit: dBs]

Input level	GAIN Trim	ST1 OUT (L,R)	MONO OUT	MONITOR 1,2 OUT	EFFECT OUT
-40	MIN	-7.0 +/- 2	-4.0 +/- 2	-4.0 +/- 2	+2.0 +/- 2

3. FREQUENCY RESPONSE

- In the state as described in 2, input a signal at the frequency of 20Hz and 20kHz and check that the output level at each output terminal is within the range of +1.0/-3.0dB with 1kHz used as a reference frequency. At 20Hz with GAIN trim at the maximum position only, however, the output level should be within the range of +1dB/-4.5dB. Also, check the output level at SUB IN for C-R/PHONES.

4. EQUALIZER CHARACTERISTICS

- In the state as described in 1, move each of LOW, MID and HIGH of INPUT controls and check that the output level of the frequency obtained at ST1 OUT (L, R)falls within the range given in [Table 4-1] with the output level obtained at the center click position used as a reference.
- If the output level at a specified frequency does not fall within the range given in [Table 4-1], vary the frequency of the input signal within the range of specified frequency +/- 20% and check that the output level within the range of [Table 4-1] is obtained.

[Table 4-1] EQ characteristics [Unit: dBs]

Control	GAIN	Input signal frequency	Variation width
HIGH	MAX	10kHz	+12 +/- 2
	MIN		-12 +/- 2
MID	MAX	2.5kHz	+14 +/- 2
	MIN		-14 +/- 2
LOW	MAX	100Hz	+12 +/- 2
	MIN		-12 +/- 2

5. GRAPHIC EQUALIZER CHARACTERISTICS

- In the state as described in 1, move the fader of GEQ and check that the output level of the frequency obtained at ST1 OUT (L, R) falls within the range given in [Table 5-1] with the output level obtained at the center click position used as a reference. If the output level at a specified frequency does not fall within the range given in [Table 5-1], vary the frequency of the input signal within the range of specified frequency +/- 20% and check that the output level within the range of [Table 5-1] is obtained.

[Table 5-1] GRAPHIC EQUALIZER characteristics [Unit: dBs]

Fader name	125	250	500	1K	2K	4K	8K
Input signal frequency	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
FADER MAX	+12 +/- 2						
FADER MIN	-12 +/- 2						

6. PEAK LED LIGHTING LEVEL

- In the state as described in 1, input a signal to MIC IN or L/MONO IN and check that the PEAK LED lights up at the input signal level as in [Table 6-1].

[Table 6-1] PEAK LED lighting level [Unit: dBs]

Input channel	CH1~8 (MIC IN)	CH9/10, 11/12 (L/MONO)
Input signal level	-43 +/- 2	-17 +/- 2

7. METER LIGHTING LEVEL

Check that when the output level of ST1 OUT (L, R) is as in[Table 7-1], each corresponding METER LED lights up.

[Table 7-1] METER lighting level [Unit: dBs]

LED name	PEAK	+8	+5	+3	+1	0	-1
Lighting start level	+17 +/- 2	+12 +/- 2	+9 +/- 2	+7 +/- 2	+5 +/- 2	+4 +/- 2	+3 +/- 2
LED name	-3	-5	-7	-10	-15	-20	—
Lighting start level	+1 +/- 2	-1 +/- 2	-3 +/- 2	-6 +/- 2	-11 +/- 3	-16 +/- 5	—

8. DISTORTION FACTOR

- In the state as described in 1, check that the distortion factor when +14dBs output is obtained at each output terminal is 0.1% or less (except for REC OUT and INSERT OUT).
- In the case of C-R/PHONES OUT, set the 12 o'clock point of the level control to the Norminal position and the master fader control to 5 on the scale. In this state, check that the distortion factor when +3dBs output is obtained is 0.2% or less.
- When taking measurements in [Table 2-1] and [Table 2-2], set the GAIN trim of the channel being measured only to the maximum position but the GAIN trim of other channels to the minimum position.
- When taking measurements in [Table 2-3] and [Table 2-4], set the GAIN trim of the channels to the minimum position.

9. MAXIMUM OUTPUT

- In the state as described in 8 above, check that +20dBs output with 1% or less distortion factor is obtained at ST1 OUT (L, R), ST2 OUT (L, R), MONO OUT, MONI 1 OUT, MONI 2 OUT and EFFECT OUT. Also, check that +8dBs output with 1% or less distortion factor is obtained at C-R/PHONES (L, R) OUT.

10. EIN

- In the state as described in 1, set only the fader and GAIN trim of the input channel to be measured to the maximum position and the fader of all the other input channels to the minimum position and short MIC IN with 150 ohm. Then check the noise level obtained at ST1 OUT (L). It should be -65.5dBs or less. If it exceeds -65.5dBs, calculate the input converted noise level and check that the result is 126.5dBs or less. (Use the DIN audio filter.)

11. RESIDUAL NOISE

- In the state as described in 1., set all Fader/Level controls in the input section to the minimum position. Then set the Fader/Level controls in the MASTER section in [Table 11-1]to the maximum or minimum position and check that the noise level is at the level indicated in [Table 11-1] or less.

[Table 11-1] Residual noise [Unit: dBs]

Fader or Level control	ST1,2 OUT (L,R)	MONO OUT	MONI 1,2 OUT	EFFECT OUT	C-R/PHONES OUT
Maximum	-87	-87	-87	-83	-78
Minimum	-95.5	-95	-95	-95	-97

12. PHANTOM POWER SUPPLY (+48V)

- Connect a 10k ohms load resistance between pins 1 and 2 of MIC IN to short-circuit between signals 2 and 3. Then check that +35 +/- 3 V voltage is obtained at both ends of the load resistance when the PHANTOM switch is turned on.

13. DIGITAL EFFECT

- In the state as described in 1, input -16 dBs/1kHz signal to MIC IN of channel 1, set MONI 1, 2 level controls of channel 1 to the minimum position and check that -30dBs or more signal is obtained at MONI 1, 2 OUT when the DIGITAL EFFECT switch is turned on. Also, check that a signal in the same range is obtained when the PARAMETER control is set to the minimum position. Change the PROGRAM select switch to 2 to 16 and perform the same check.
- Check that the EFFECT function works when the signal from the music source is input.
- Check that the DIGITAL EFFECT function can be turned on and off using the foot switch.
- In the state as described in 1, change all the channel fader settings to the minimum position. Then turn on the DSP switch and check that the noise level at ST1 OUT (L, R) is -61dBs or less. (Use the DIN audio filter.)

14. STABILITY

- Connect 10pF to 0.1µF capacitance in parallel with the load resistance at each output terminal and check that no abnormality such as oscillation occurs.
- Set all the VR and EQ controls to the maximum position and check that no abnormality such as oscillation occurs. Be sure to connect a load resistance to the power amplifier for this check.

B. INSPECTION OF POWER AMPLIFIER

● INSPECTION AT ST1L-ST1R

1 PREPARATIONS

- Input terminal: ST SUB IN 1 L/MONO
- POWER AMP Switch : ST1L-ST1R
- POWER AMP (L/BRIDGE, R) level control:MAX
- Output terminal: SPEAKER L (1), SPEAKER R (1)
- Load resistance: 40 ohm (300W or more)
  Unless otherwise specified, the load resistance of the speaker should be connected only when checking the power amplifier.
- Set all the Fader/Level controls of channels1 to 10, SUB IN 2 and TAPE IN to the minimum position.
- Other than the above, use the same setting as described under PREPARATIONS for inspection.

2 Muting function at power ON

- Check that the muting function is cancelled and the relay turns on at 2.5 +/- 1 seconds after the POWER switch is turned on.

3 Fan

- Short-circuit the 2 jumper wires within the frame (between C141 and Q139) marked FAN-C in the PWR circuit board and check that the fan runs at a low speed.

4 DC voltage at output terminal

- Ground the input terminal and check that the DC voltage at the output terminal is 0 +/- 100mV.

5 GAIN

- Input a -9.0 dBs signal to the input terminal and check that the output level of measured gain is as specified in Table 5-1 when the POWER AMP switch setting is changed.

[Table 5-1] Gain [Unit: dBs]

POWER AMP switch	ST1L-ST1R	MONI 1-MONO
SPEAKER L (1,2)	+20.0 +/- 2.0	+23.0 +/- 2.0
SPEAKER R (1,2)	+20.0 +/- 2.0	+23.0 +/- 2.0

6 FREQUENCY RESPONSE

- Input 20Hz, 1kHz, 20kHz/-9.0dBs sine wave signals to the input signal and check that the frequency response at 20Hz and 20kHz is within the range of +1.0/-3.0dB with 1kHz used as a reference.

7 TOTAL HARMONIC DISTORTION

- Input a 1kHz signal to the input terminal and check that the total harmonic distortion is 0.5% or less when 300W + 300W/4 ohm (33.0dBs) output is obtained.
- Also, input 20Hz, 2kHz and 20kHz signals to the input terminal and check that the total harmonic distortion is 0.5% or less when 150W + 150W/4 ohm (30.0dBs) signal is obtained at the output terminal.

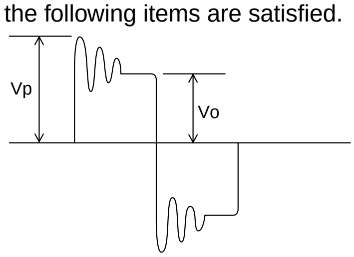
8 RESIDUAL NOISE

- Set the POWER AMP L/BRIDGE, POWER AMP R level controls to the minimum position and check that the noise level at the output terminal is -62dBs. Use care so that the measurement is not affected by the induction noise. (Use the DIN audio filter.)

9 STABILITY

- With 10kHz • -3.2dBs rectangular signal input, connect 10pF to 0.47 μ F capacitance in p parallel with 4 ohm load resistance or 10 μ H to 0.47H inductance and check that the following items are satisfied.

Overshoot: Vp/Vo ≦ 1.8
Ringing: Within 5 waves



- Disconnect 4 ohm load resistance to make the load consisting of 10pF to 0.47 μ F capacitance only, check that ringing is within 7 waves at Vp/Vo ≦ 2.5 and no oscillation or the like occurs.

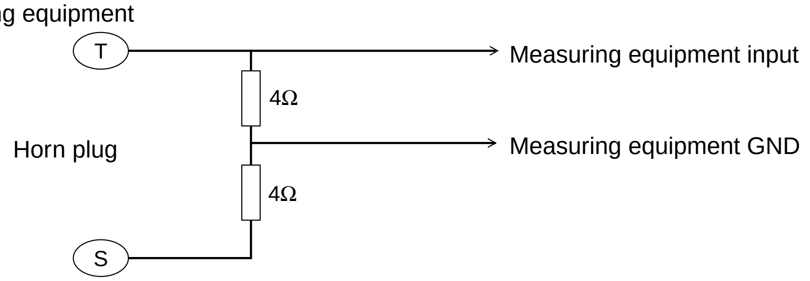
10 PROTECTION CIRCUIT
- With a signal input to POWER AMP IN (L), clip the output waveform of the 10Hz signal and check that the protection circuit functions to prevent the relay from opening.
- Check that the protection circuit functions within 2 seconds to shut off the output when a 1Hz, Vp-p=10V(13.2dBs) signal is input and the output is restored automatically within 5 seconds when the input signal is stopped.

11 PC LIMITER CIRCUIT, LIMITER CIRCUIT, LIMITER INDICATOR
- With 1 ohm load resistance (+/- 5%, 100W) connected to the output terminal, input a 0dBs signal to the input terminal and observe the output terminal using an oscilloscope. Then the protection circuit should function to shut off the output and the output is restored automatically within 5 seconds when the input signal is stopped.

12 EFFICIENCY
- Input a -5.6dBs signal and check that the primary voltage is 190 +/- 50W. 12.2V (24.0dBs) output should be obtained at SPEAKER OUT 1 and 2 at this time.

● INSPECTION OF MAIN BRIDGE
1 PREPARATIONS
- Input terminal: ST BUS IN 1 L/MONO
- POWER AMP Switch : MONO BRIDGE
- POWER AMP (L/BRIDGE, R) level control : Maximum
- Output terminal: BRIDGE
- Load resistance: 8 ohm (600W or more)
  Unless otherwise specified, the load resistance of the speaker should be connected only when performing inspection.
- Set all the Fader/Level controls of channels 1 to 10, SUB IN 2 and TAPE IN to the minimum position.
- Other than the above, use the same settings as described under “Inspection 1” for inspection.

- Connection of measuring equipment



2 GAIN
- Input a -12.0dBs signal to the input terminal and check that +20.0 +/- 2 dBs output is obtained.

3 FREQUENCY RESPONSE
- Input 20Hz, 1kHz, 20kHz/-12.0dBs signals to the input terminal and check that the frequency response at 20Hz and 20kHz is within the range of +1.0/-3.0dB with 1kHz used as a reference.

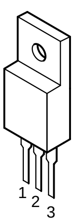
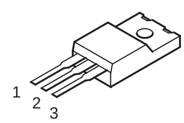
C. OTHER INSPECTIONS
1 POWER VOLTAGE VARIATION
- Check that no abnormality occurs with operation even when the power voltage is varied by +/- 10%.

D. FACTORY SETTINGS

• EQ GAIN, GEQ GAIN	CENTER
• All VR and fader controls other than above	Minimum
• All push switches	OFF
• PHANTOM switch	OFF
• POWER AMP switch	ST1L-ST1R
• POWER AMP LEVEL VR	Maximum
• POWER switch	OFF
• PROGRAM switch	1

CIRCUIT DIAGRAMS

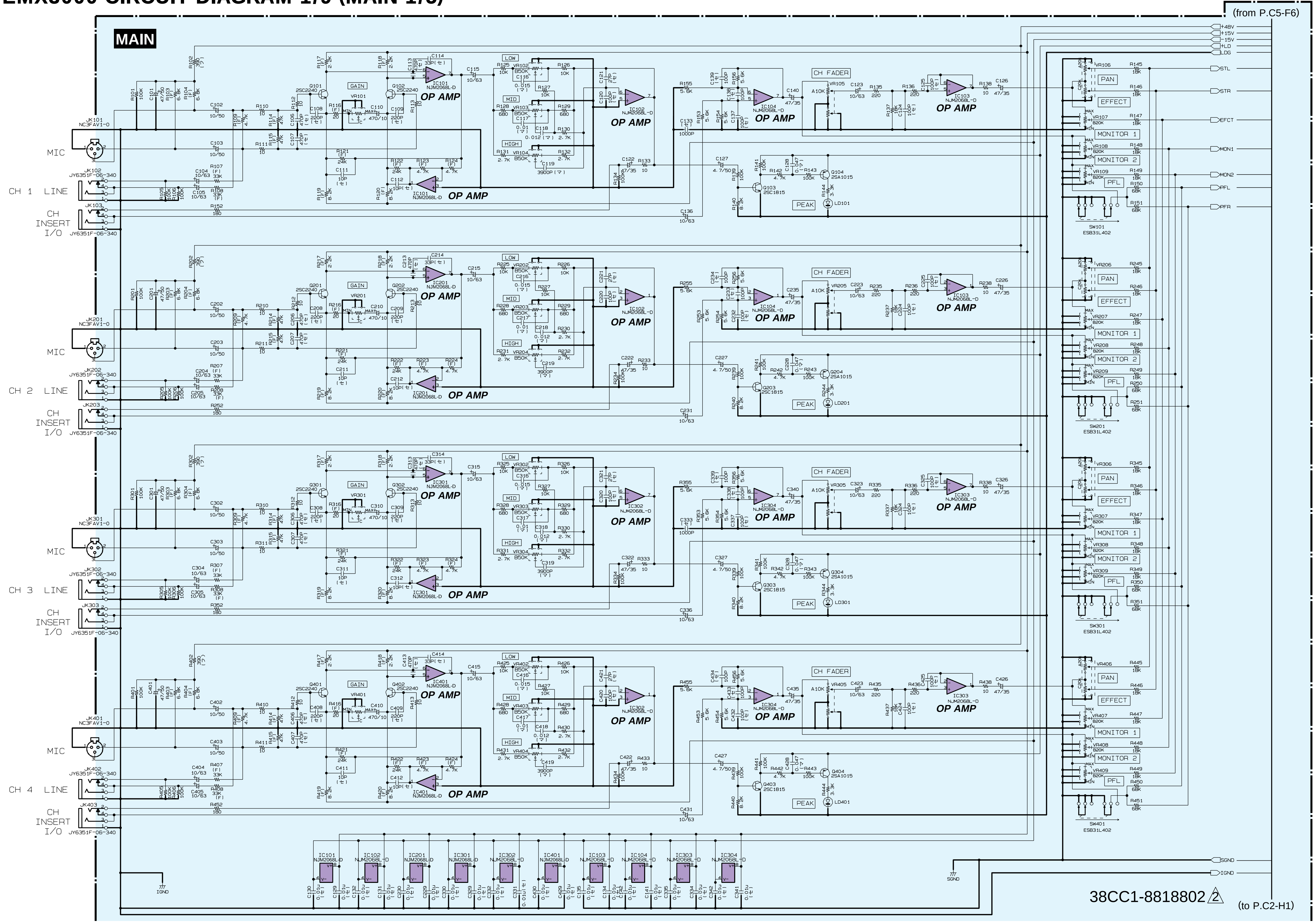
CONTENTS

• NJM7805FA (XJ607A00) REGULATOR +5V  1: OUTPUT 2: COMMON 3: INPUT	• NJM7812FA (XJ608A00) REGULATOR +12V • NJM7815FA (XD853A00) REGULATOR +15V  1: INPUT 2: GND 3: OUTPUT

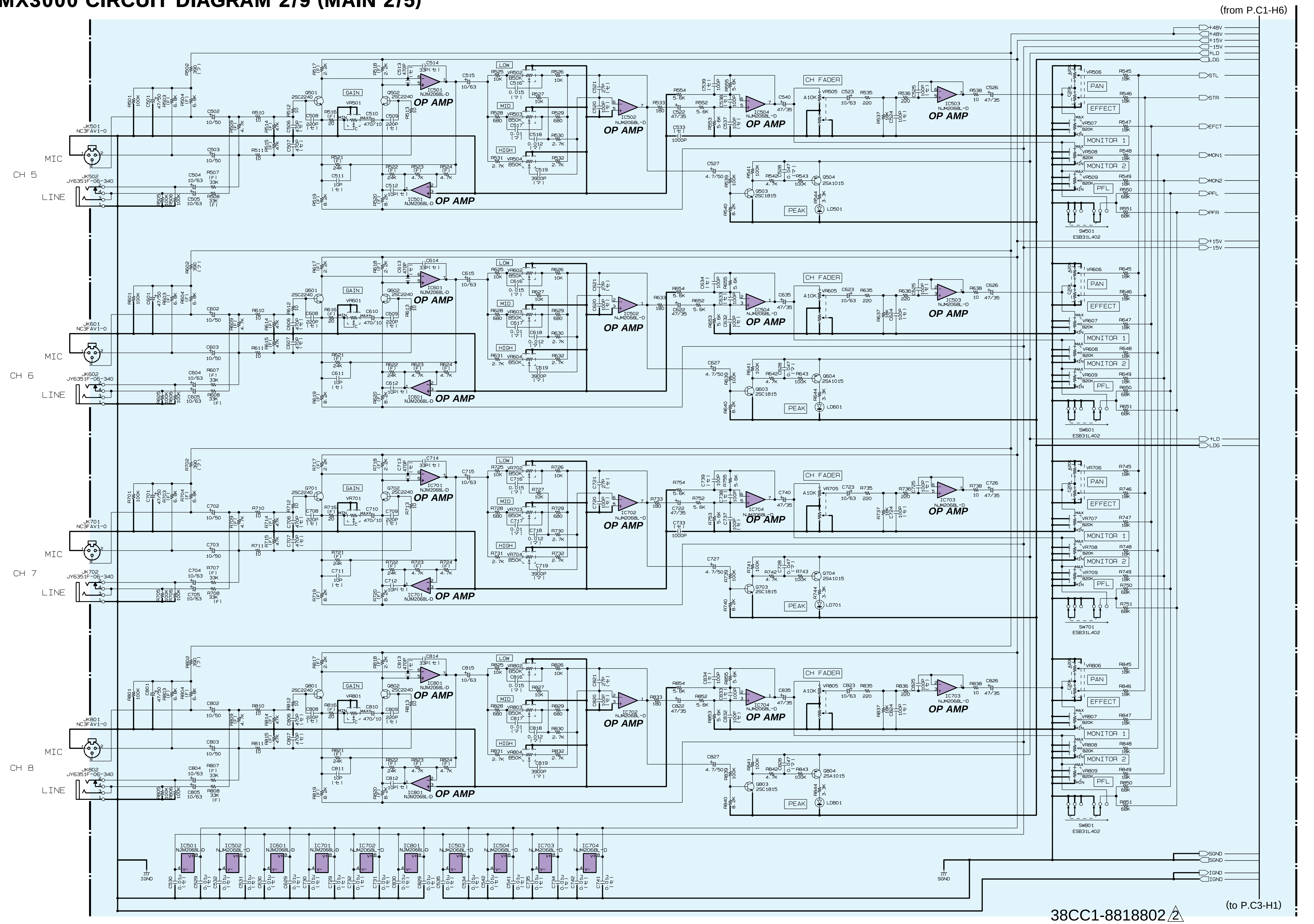
（F）: **Metal Film Resister**
（フ）: **Flame Proof Carbon Resistor**
（マ）: **Mylar Capacitor**
（セ）: **Ceramic Capacitor**
規格認定コン : **Capacitor**

Note : See parts list for details of circuit board component parts.

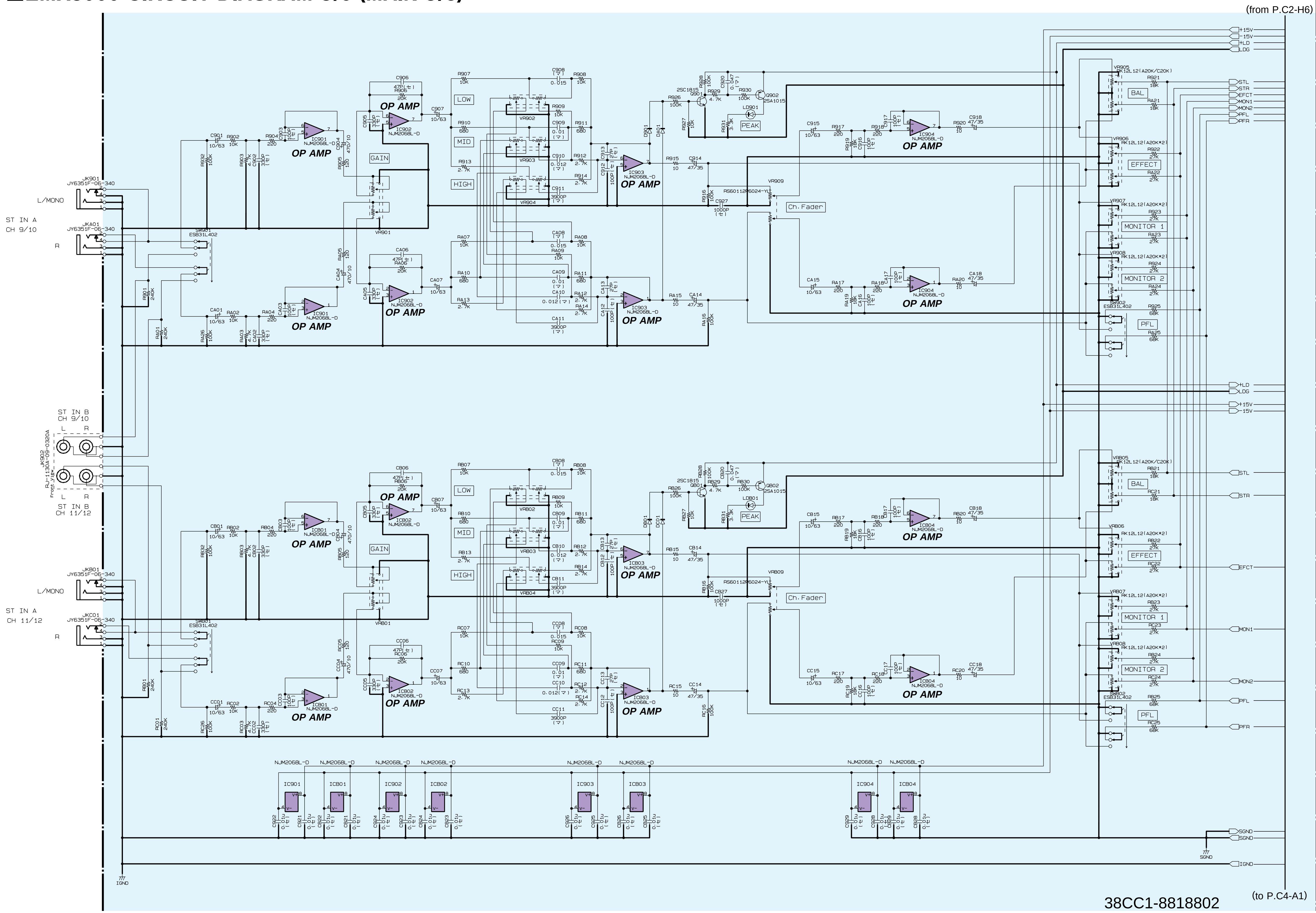
■EMX3000 CIRCUIT DIAGRAM 1/9 (MAIN 1/5)



■EMX3000 CIRCUIT DIAGRAM 2/9 (MAIN 2/5)

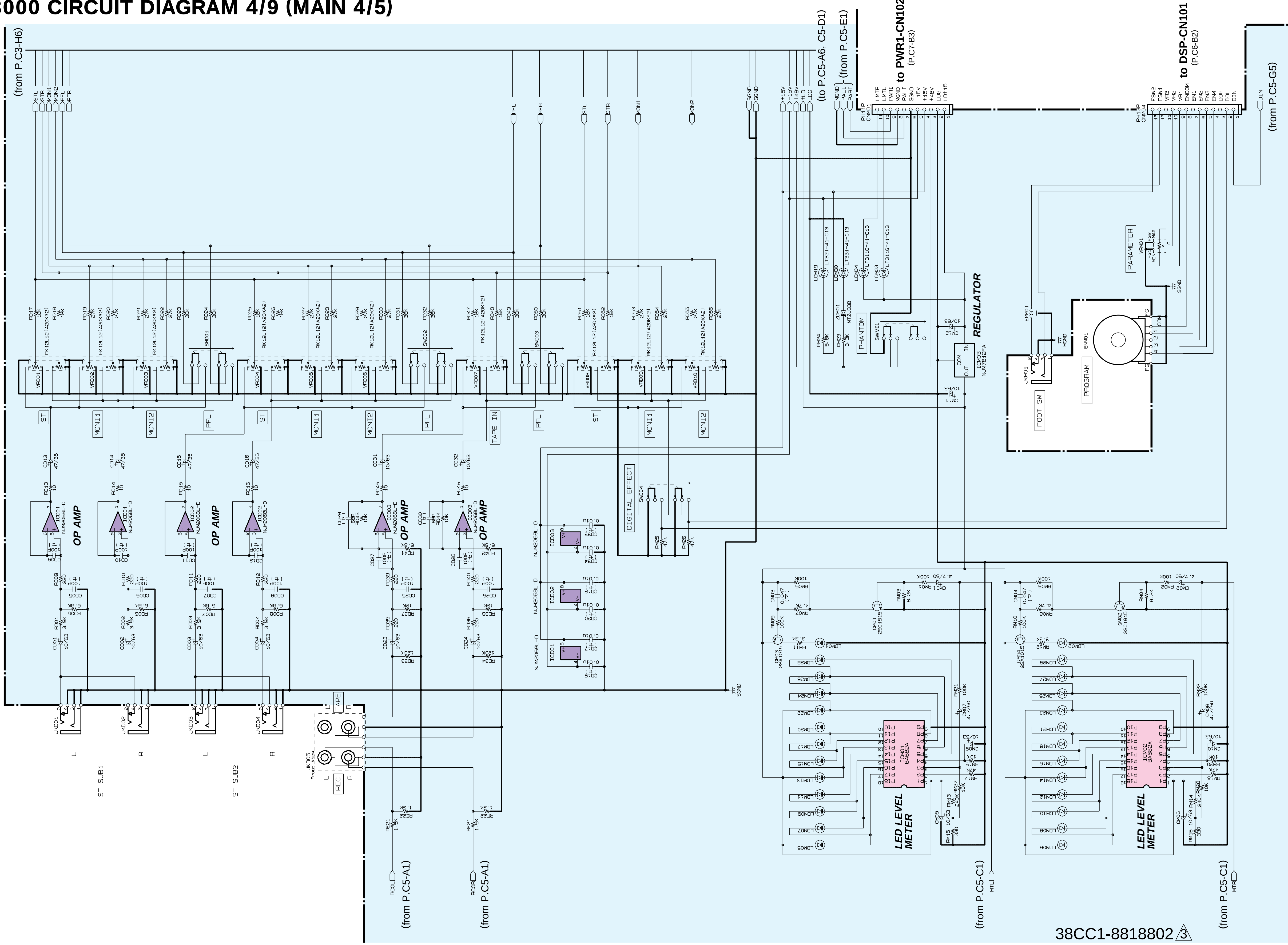


■EMX3000 CIRCUIT DIAGRAM 3/9 (MAIN 3/5)

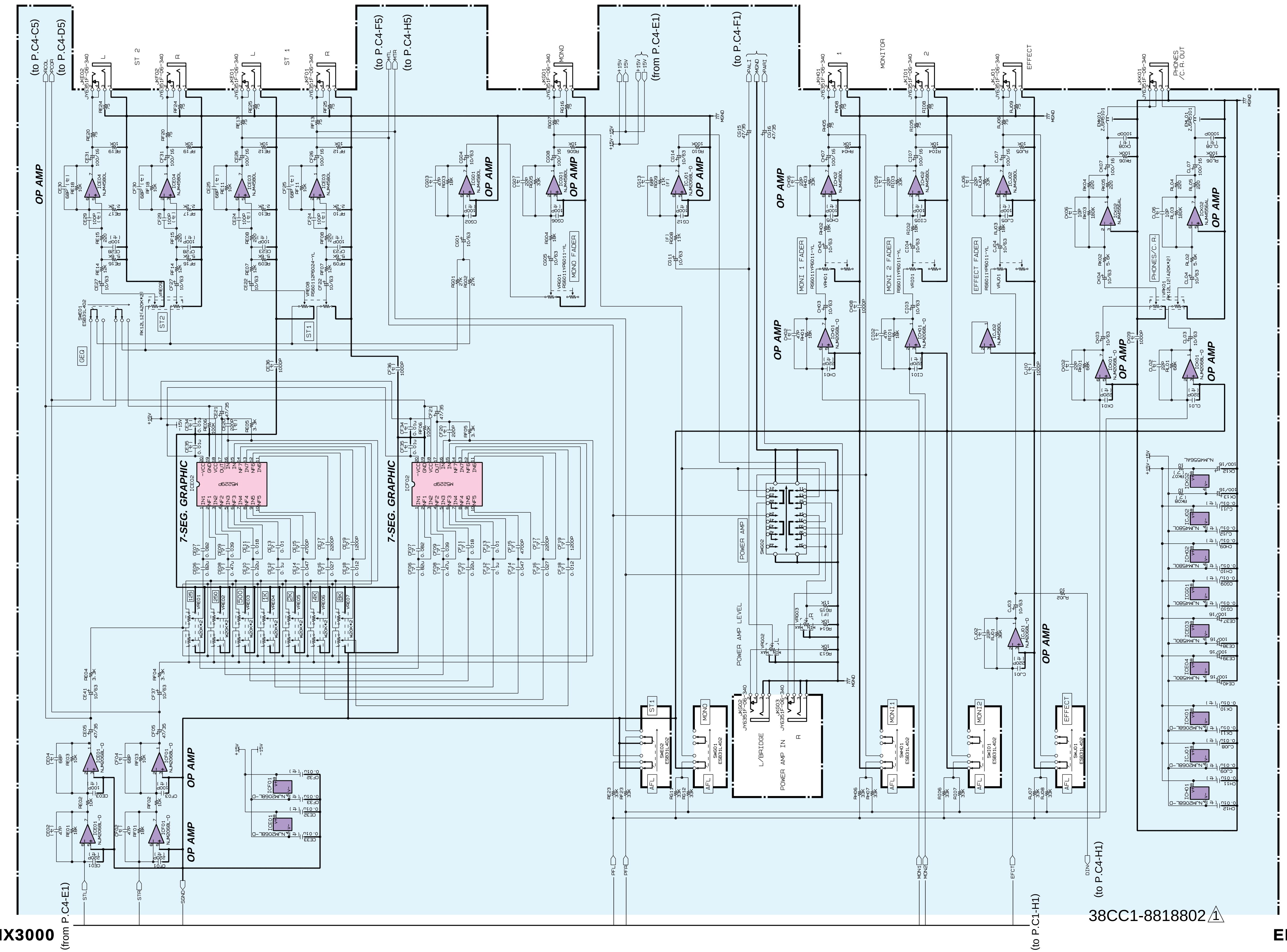


1 2 3 4 5 6

■EMX3000 CIRCUIT DIAGRAM 4/9 (MAIN 4/5)

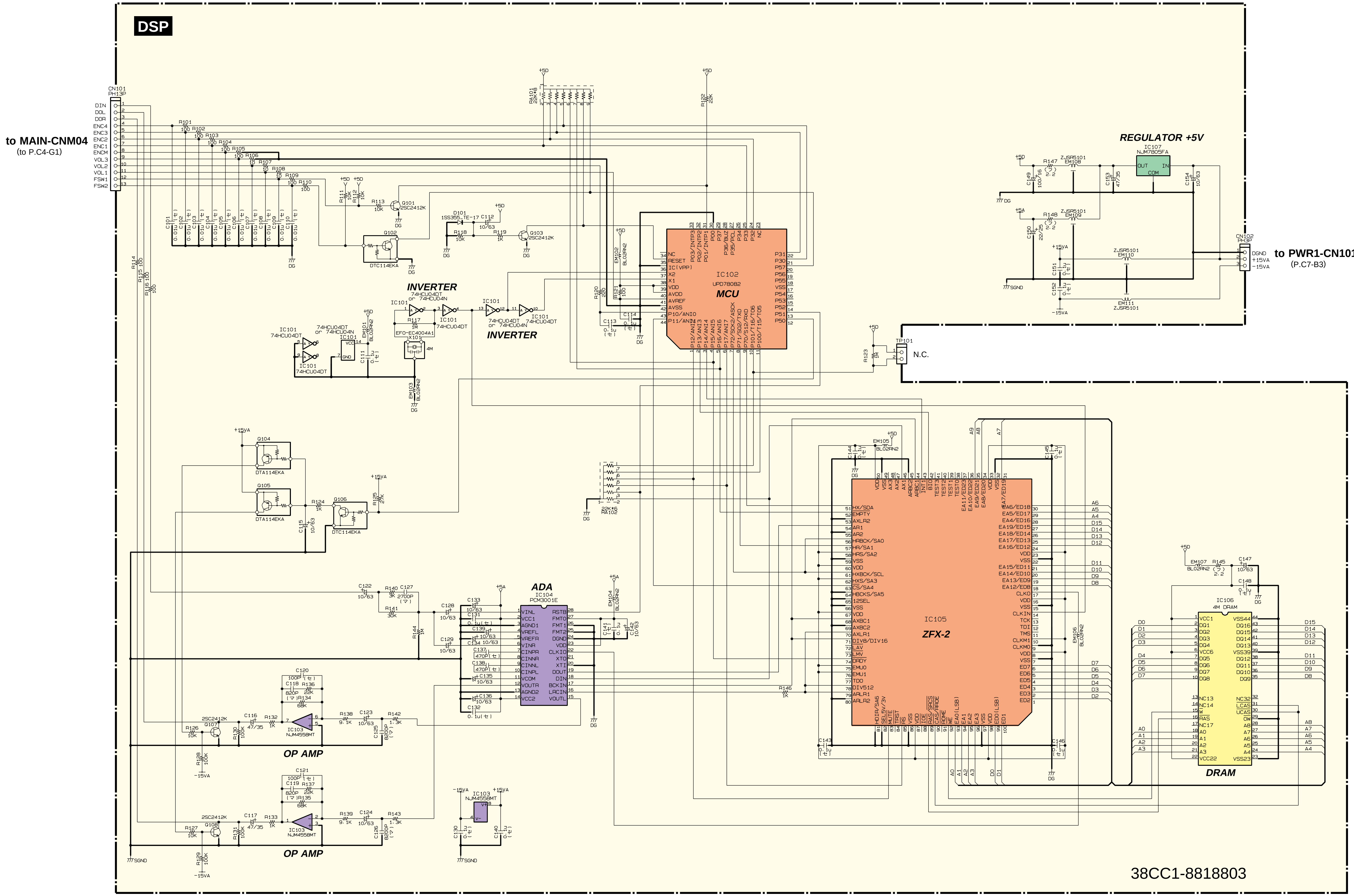


■EMX3000 CIRCUIT DIAGRAM 5/9 (MAIN 5/5)

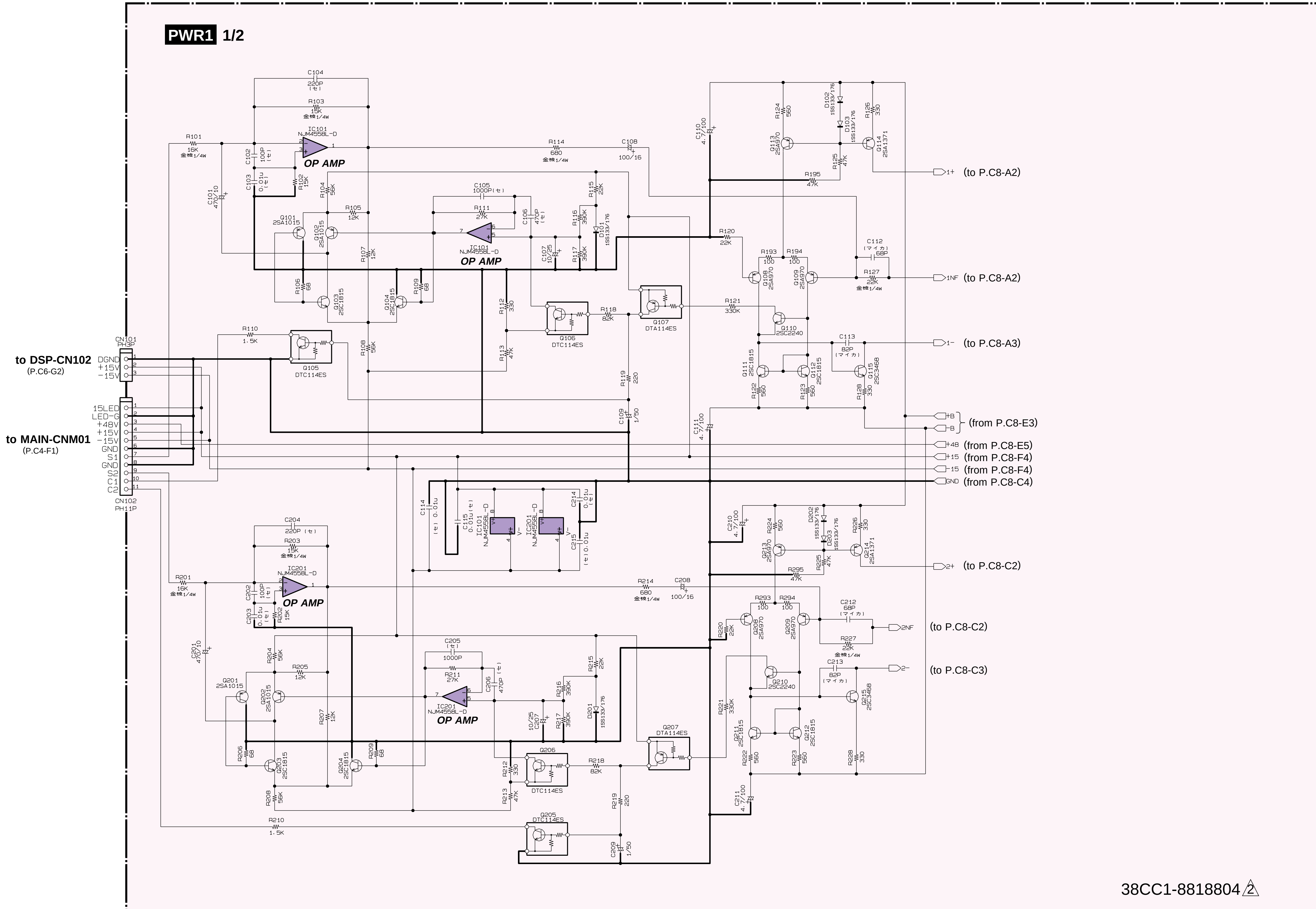


38CC1-8818802 ⚠1

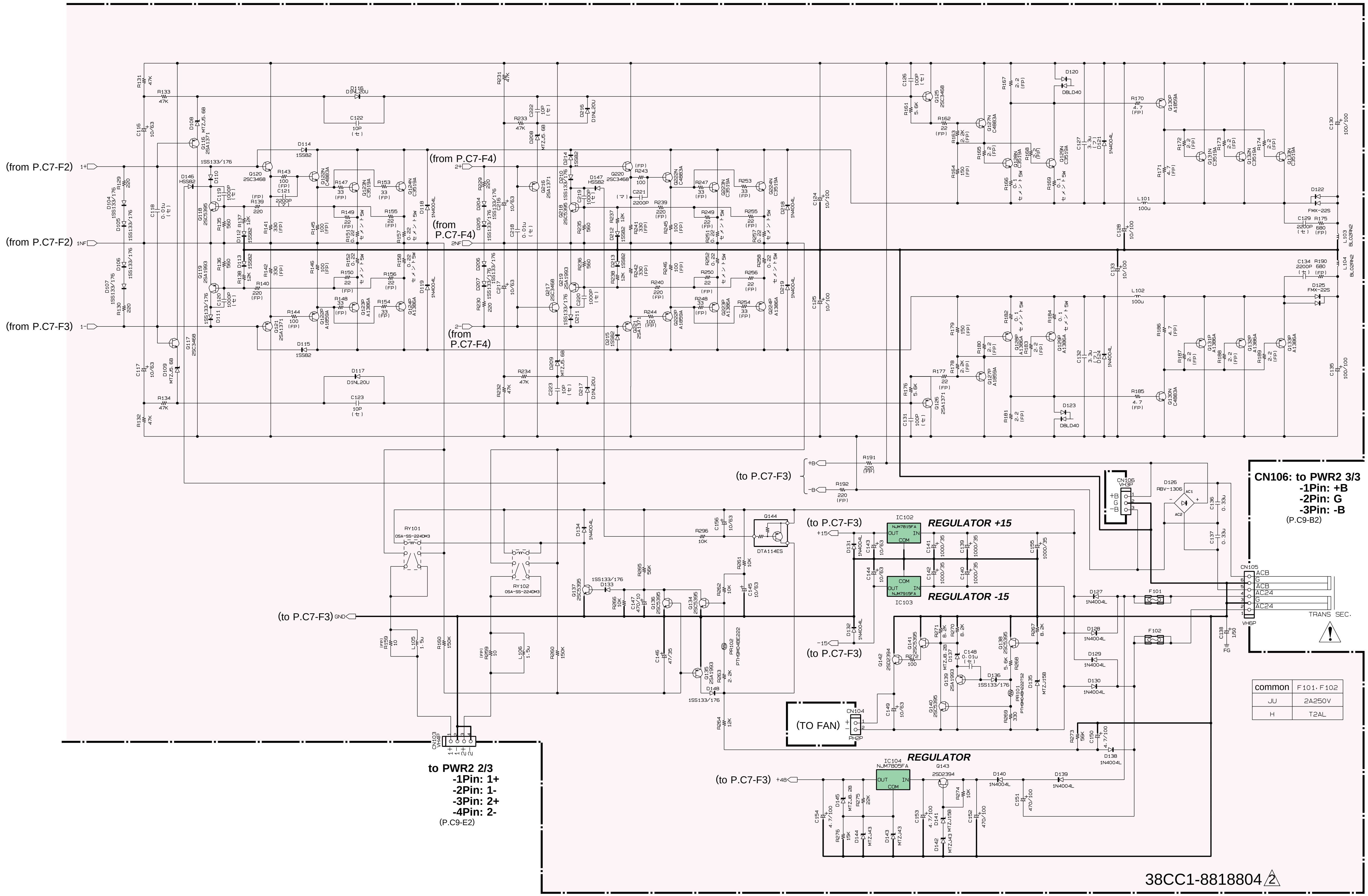
■EMX3000 CIRCUIT DIAGRAM 6/9 (DSP)



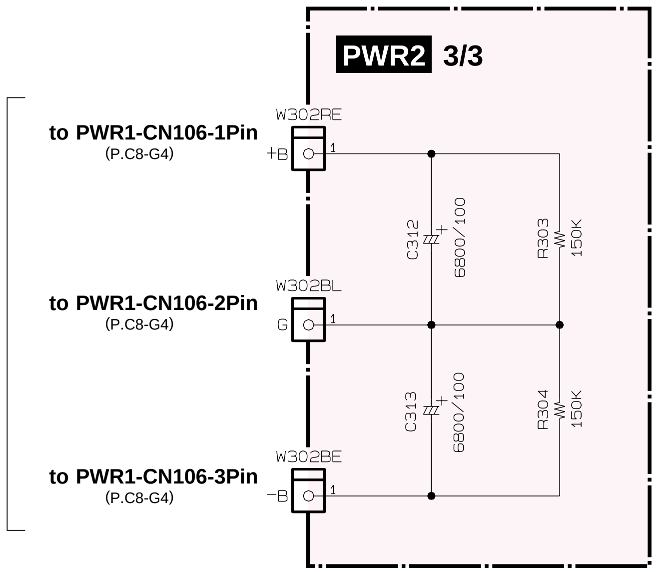
■EMX3000 CIRCUIT DIAGRAM 7/9 (PWR1 1/2)

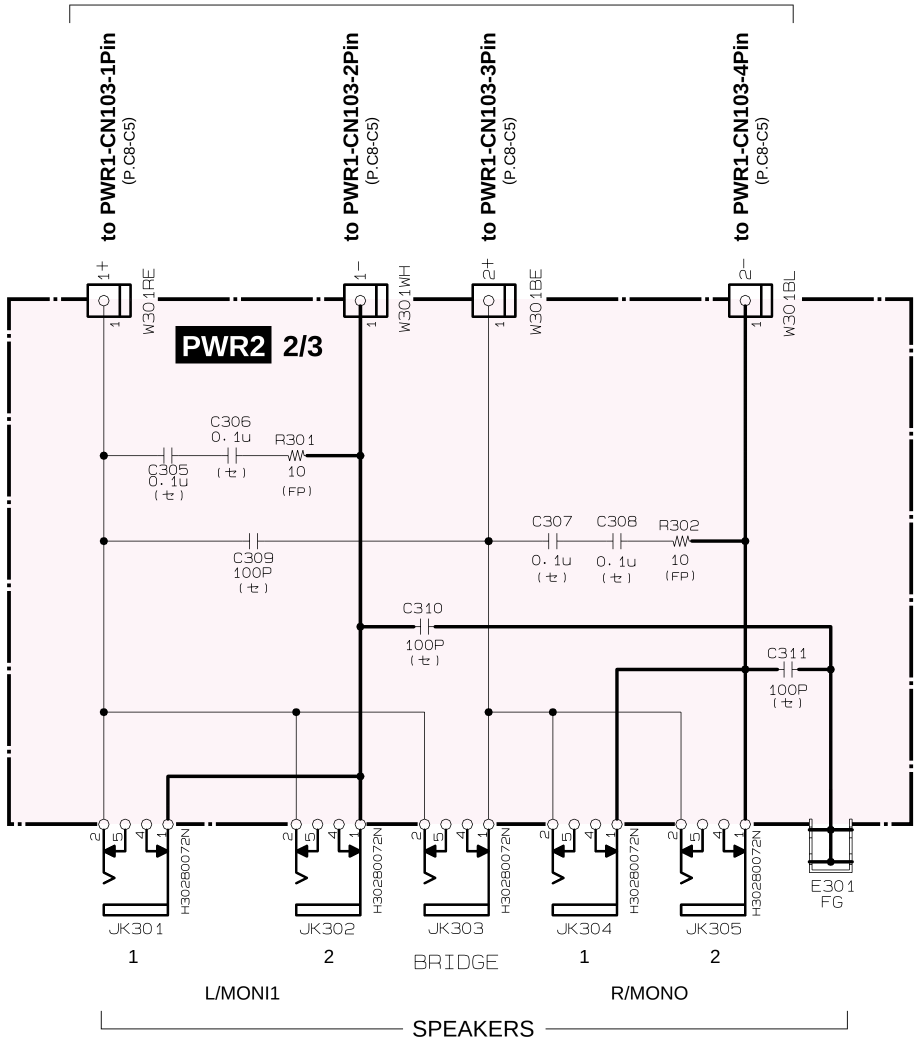


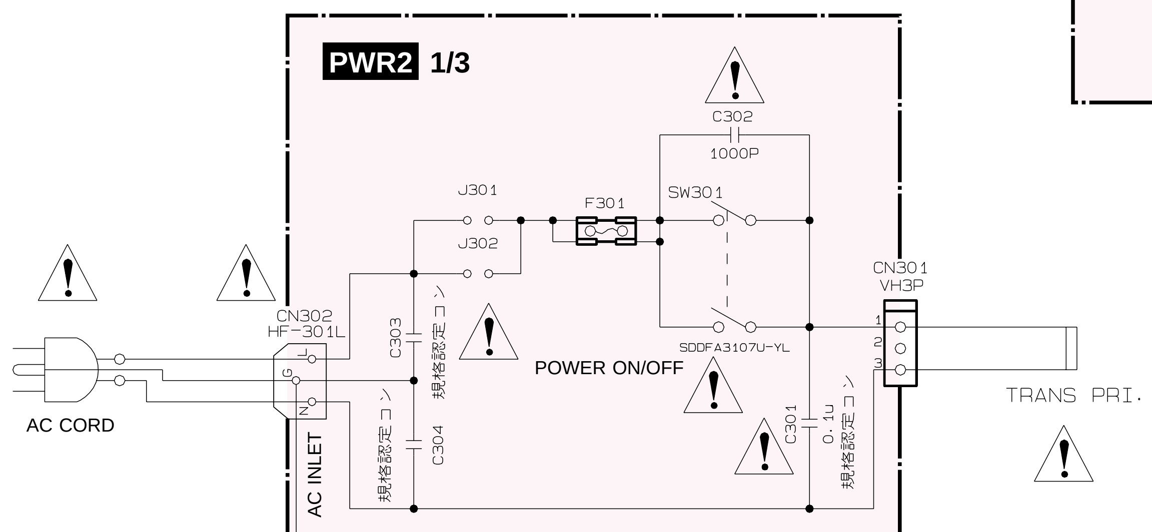
■EMX3000 CIRCUIT DIAGRAM 8/9 (PWR1 2/2)



■EMX3000 CIRCUIT DIAGRAM 9/9 (PWR2 1/3, 2/3, 3/3)







common	transformer	F301	C303, C304
J	XZ505	15A250V	–
U	XZ506	12A250V	3300p
H	XZ507	T6.3AH	4700p
A	XZ508		

38CC1-8818805

POWERED MIXER

EMX3000

PARTS LIST

■ CONTENTS

Notes : DESTINATION ABBREVIATIONS

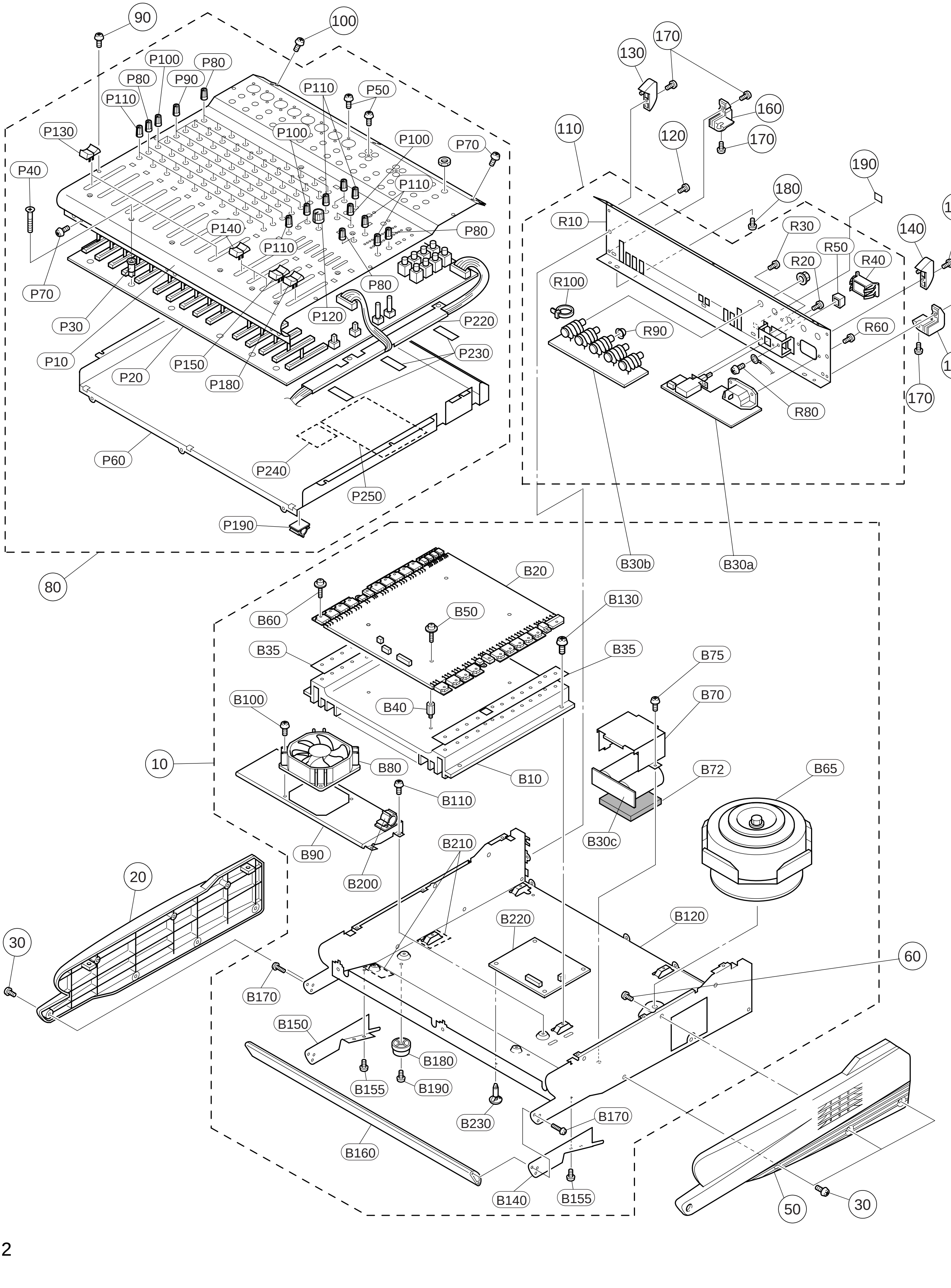
A :	Australian model	M :	South African model
B :	British model	O :	Chinese model
C :	Canadian model	Q :	South-east Asia model
D :	German model	T :	Taiwan model
E :	European model	U :	U.S.A. model
F :	French model	V :	General export model (110V)
H :	North European model	W:	General export model (220)
I :	Indonesian model	N,X:	General export model
J :	Japanese model	Y :	Export model

■ WARNING

Components having special characteristics are marked ⚠ and must be replaced with parts having specification equal to those originally installed.

- The numbers “QTY” show quantities for each unit.
- The parts with “--” in “PART NO.” are not available as spare parts.
- This mark “ } ” in the REMARKS column means these parts are interchangeable.
- The second letter of the shaded ( ) part number is O, not zero.
- The second letter of the shaded ( ) part number is I, not one.

OVERALL ASSEMBLY



	REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
			OVERALL ASSEMBLY		EMX3000		
		--	Overall Assembly	J	J (V699180)		
		--	Overall Assembly	U	U (V699190)		
		--	Overall Assembly	H	H (V699200)		
		--	Overall Assembly	A	A (V699210)		
	10	--	Bottom Assembly	J	J (V699230)		
	10	--	Bottom Assembly	U	U (V699350)		
	10	--	Bottom Assembly	H	H (V699360)		
	10	--	Bottom Assembly	A	A (V699370)		
*	20	**V6996900**	Side Pad L				
	30	**EG340190**	Bind Head Tapping Screw-B	4.0X8 MFZN2BL		6	01
*	50	**V6997000**	Side Pad R				
	60	**EG340190**	Bind Head Tapping Screw-B	4.0X8 MFZN2BL		6	01
	80	--	Panel Assembly	J COM	(V699220)		
	90	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		6	01
	100	**EG340190**	Bind Head Tapping Screw-B	4.0X8 MFZN2BL		6	01
	110	--	Rear Assembly	J	J (V699380)		
	110	--	Rear Assembly	U	U (V699390)		
	110	--	Rear Assembly	H	H (V699400)		
	110	--	Rear Assembly	A	A (V699410)		
	120	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		5	01
	130	**VZ700500**	Connector Guard Upper	R			02
	140	**VZ700600**	Connector Guard Upper	L			02
	150	**VZ700700**	Connector Guard Lower	R			01
	160	**VZ700800**	Connector Guard Lower	L			01
	170	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		6	01
	180	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
	190	--	Cord Label		U (VA03930)		03
		--	Bottom Assembly	J	J (V699230)		
		--	Bottom Assembly	U	U (V699350)		
		--	Bottom Assembly	H	H (V699360)		
		--	Bottom Assembly	A	A (V699370)		
		--	Connector Assembly	2426&2426 3P 210L	(V705810)		
		VV104600	Cord Holder			4	01
*	B10	**V6786600**	Heat Sink				
*	B20	**V6983300**	Circuit Board	PWR1 J,U	J,U		
*	B20	**V6983400**	Circuit Board	PWR1 H	H		
*	B30a	**AAX24850**	Circuit Board	PWR2 1/3	J (V698350)		
*	B30a	**AAX24860**	Circuit Board	PWR2 1/3	U (V698360)		
*	B30a	**AAX24870**	Circuit Board	PWR2 1/3	H,A (V698370)		
*	B30b	**AAX24880**	Circuit Board	PWR2 2/3	(V698350)		
*	B30c	**AAX24890**	Circuit Board	PWR2 3/3	(V698350)		
*	B35	**V6995900**	Isolation Sheet			2	
	B40	**VV086500**	Angle	H=7.4 B=5.5		4	01
	B50	**EG330290**	Bind Head Screw	SP 3.0X8 MFZN2Y		4	01
	B60	**VJ470900**	Pan Head Screw	SPK 3.0X12 MFZN2Y		28	
⚠ *	B65	**XZ505A00**	Power Transformer	J	J		
⚠ *	B65	**XZ506A00**	Power Transformer	U	U		
⚠ *	B65	**XZ507A00**	Power Transformer	H	H		
⚠ *	B65	**XZ508A00**	Power Transformer	A	A		
	B70	--	Electrolytic Cap. Holder		(V703370)		
	B72	--	Cushion		(V739410)		
	B75	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
	B80	**V6024100**	DC Fan	3110GL-B5W-B50-H01			08
	B90	--	Fan Shield		(V699610)		
	B100	**EG340190**	Bind Head Tapping Screw-B	4.0X8 MFZN2BL		2	01
	B110	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		4	01
*	B120	**V6996200**	Bottom Chassis				
	B130	**EG340190**	Bind Head Tapping Screw-B	4.0X8 MFZN2BL		4	01
	B140	**VZ523600**	Plate	R			04
	B150	**VZ523700**	Plate	L			04
	B155	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		4	01
*	B160	**V6996300**	Handle				
	B170	**VQ074600**	Bind Head Tapping Screw-B	3.0X12 MFZN2BL		4	01
	B180	**VV085600**	Leg			2	01
	B190	**VR138400**	Bind Head Tapping Screw-B	4.0X12 MFZN2BL		2	01
	B200	**VZ765100**	Cord Holder	TS-0708 KSS			02
*	B210	**V7394400**	Screw Cover	35X20		2	
*	B220	**V6983200**	Circuit Board	DSP EMX3K J	(XZ633B0)		

✻: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	B230	--	PCB Support	SCC-12 BL PINGOOD		(V764330)	4	
		--	Panel Assembly	J COM		(V699220)		
		--	Connector Assembly	2426&2426 12P		(V705820)		
		--	Connector Assembly	2426&2426 13P		(V705830)		
*	P10	**V6995500**	Control Panel					
*	P20	**V6983100**	Circuit Board	MAIN J		(XT783H0)		
	P30	**VV069200**	PCB Support	NEW NIFCO			14	01
	P40	**VV095300**	Pan Head Tapping Screw-B	3.0X25 MFZN2BL			14	01
	P50	**VN413300**	Bonding Screw-B	3.0X8 MFZN2BL			18	01
	P60	--	Shield Plate			(V699560)		
	P70	**EP600230**	Bind Head Tapping Screw-B	3.0X6 MFZN2BL			6	01
	P80	**V6225600**	Knob	L-GRAY/M-GRAY		CH1-12(GAIN,EFFECT), PARAMETER,C-R/PHONES	22	01
	P90	**V6225300**	Knob	GREEN/M-GRAY		CH1-12(HIGH,MID,LOW)	30	01
	P100	**V6225400**	Knob	BLUE/M-GRAY		MONI1,2(CH1-12,ST SUB 1, ST SUB 2,D. EFFECT)	26	01
	P110	**V6225500**	Knob	RED/M-GRAY		PAN(CH1-8),BAL(CH9-12), ST(ST SUB1,2),TAPE IN ST, D. EFFECT ST,ST2	15	01
	P120	**V6225700**	Knob	L-GRAY/D-GRAY		PROGRAM		01
	P130	**V2947000**	Knob	BLACK/N-GRAY		Fader(CH1-12)	10	01
	P140	**V6623300**	Knob	D-RED/CD-GRAY		Fader(MONI1,MONI2,EFFECT)	3	01
	P150	**V6623400**	Knob	N-GRAY/D-RED		ST1 Fader		01
*	P180	**V7369500**	Knob	N-GRAY/BLACK		MONO Fader		
	P190	**VZ765100**	Cord Binder	TS-0708 KSS				02
*	P220	**V7393800**	Cover					
	P230	--	Filament Tape	12X25		(V263830)		
	P240	--	Caution Label			(V385110)		
	P250	--	Transformer Cover			(V765040)		
		--	Rear Assembly	J		J (V699380)		
		--	Rear Assembly	U		U (V699390)		
		--	Rear Assembly	H		H (V699400)		
		--	Rear Assembly	A		A (V699410)		
*	R10	**V6996400**	Rear Panel			J		
*	R10	**V6996500**	Rear Panel			U		
*	R10	**V6996600**	Rear Panel			H		
*	R10	**V6996700**	Rear Panel			A		
	R20	**VB659000**	Bind Head Screw	3.0X8 MFZN2BL			2	01
	R30	**VN413300**	Bonding Screw-B	3.0X8 MFZN2BL				01
	R40	**VU859100**	PSW Escutcheon					02
	R50	**VU859000**	PSW Knob			POWER Switch		01
	R60	**EG340190**	Bind Head Tapping Screw-B	4.0X8 MFZN2BL			2	01
	R80	**VP156800**	Bind Head Screw	4.0X8 MFZN2BL				01
*	R90	**V7646900**	Clip	FIB84 TIFCO				
	R100	**VV104600**	Cord Holder					01
			ACCESSORIES					
⚠		**V6283900**	AC Cord	BS H05VV-F3X0.75		B		
⚠		**V6284300**	AC Cord	UC SJT#18X3		U,V		
⚠		**V6284400**	AC Cord	E H05VV-FX3 0.75		H,W,A		
⚠		**V7240300**	AC Cord	J VCTF 0.75X3		J		

✻: New Parts

RANK: Japan only

■ ELECTRICAL PARTS

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
			ELECTRICAL PARTS			EMX3000		
*		**V6983300**	Circuit Board	PWR1 EMX3K J,U		J,U (XZ656C0)		
*		**V6983400**	Circuit Board	PWR1 EMX3K H		H (XZ656C0)		
*		**AAX24850**	Circuit Board	PWR2 1/3		J (V698350)(XZ657B0)		
*		**AAX24860**	Circuit Board	PWR2 1/3		U (V698360)(XZ657B0)		
*		**AAX24870**	Circuit Board	PWR2 1/3		H,A (V698370)(XZ657B0)		
*		**AAX24880**	Circuit Board	PWR2 2/3		(V698350)(XZ657B0)		
*		**AAX24890**	Circuit Board	PWR2 3/3		(V698350)(XZ657B0)		
*		**V6983200**	Circuit Board	DSP J		(XZ633B0)		
*		**V6983100**	Circuit Board	MAIN J		(XT783H0)		
*		**V6983300**	Circuit Board	PWR1 EMX3K J,U		J,U (XZ656C0)		
*		**V6983400**	Circuit Board	PWR1 EMX3K H		H (XZ656C0)		
		--	Jumper Wire	0.60		(VV29140)		01
		VV319600	Fuse Holder	CQ-05CT				01
	C101	**UR828470**	Electrolytic Cap.	470.00 10.0V				01
	C102	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
	C103	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
	C104	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
	C105	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
	C106	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
	C107	**UR847100**	Electrolytic Cap.	10.00 25.0V				01
	C108	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
	C109	**UR866100**	Electrolytic Cap.	1.00 50.0V				01
	C110	**UR896470**	Electrolytic Cap.	4.7 100.0V				
	C111	**UR896470**	Electrolytic Cap.	4.7 100.0V				
	C112	**FU451680**	Mica Capacitor	68P 500V J				01
	C113	**FU451820**	Mica Capacitor	82P 500V J				01
	C114	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
	C115	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
	C116	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
	C117	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
	C118	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
	C119	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
	C120	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
	C121	**UA953220**	Mylar Capacitor	2200P 50V J				01
	C122	**V4567500**	Ceramic Capacitor-SL	10P 500V K				
	C123	**V4567500**	Ceramic Capacitor-SL	10P 500V K				
	C124	**UR897100**	Electrolytic Cap.	10.0 100.0V				01
	C125	**UR897100**	Electrolytic Cap.	10.0 100.0V				01
	C126	**V3280500**	Ceramic Capacitor-B	100P 500 K				01
	C127	**VV082200**	Film Capacitor	3.3000 100V M				03
	C128	**UR897100**	Electrolytic Cap.	10.0 100.0V				01
	C129	**VZ354300**	Ceramic Capacitor-E	0.0022 500 M				01
	C130	**V5307900**	Electrolytic Cap.	100 100.0V				
	C131	**V3280500**	Ceramic Capacitor-B	100P 500 K				01
	C132	**VV082200**	Film Capacitor	3.3000 100V M				03
	C133	**UR897100**	Electrolytic Cap.	10.0 100.0V				01
	C134	**VZ354300**	Ceramic Capacitor-E	0.0022 500 M				01
	C135	**V5307900**	Electrolytic Cap.	100 100.0V				
	C136	**V3148500**	Film Capacitor	0.33 250V M				01
	C137	**V3148500**	Film Capacitor	0.33 250V M				01
	C138	**UR866100**	Electrolytic Cap.	1.00 50.0V				01
	C139	**V5482000**	Electrolytic Cap.	1000 35.0V				
	-142	**V5482000**	Electrolytic Cap.	1000 35.0V				
	C143	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
	-145	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
	C146	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
	C147	**UR828470**	Electrolytic Cap.	470.00 10.0V				01
	C148	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
	C149	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
	C150	**UR896470**	Electrolytic Cap.	4.7 100.0V				
	C151	**V3158100**	Electrolytic Cap.	470 100.0V				02
	C152	**V3158100**	Electrolytic Cap.	470 100.0V				02
	C153	**UR896470**	Electrolytic Cap.	4.7 100.0V				
	C154	**UR896470**	Electrolytic Cap.	4.7 100.0V				
	C155	**V5482000**	Electrolytic Cap.	1000 35.0V				
	C156	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
	C201	**UR828470**	Electrolytic Cap.	470.00 10.0V				01
	C202	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01

✻: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C203	VZ354000	Ceramic Capacitor-F	0.0100 50V Z				01
C204	VZ353600	Ceramic Capacitor-B	220P 50V K				01
C205	VZ353900	Ceramic Capacitor-B	1000P 50V K				01
C206	VZ353800	Ceramic Capacitor-B	470P 50V K				01
C207	UR847100	Electrolytic Cap.	10.00 25.0V				01
C208	UR838100	Electrolytic Cap.	100.00 16.0V				01
C209	UR866100	Electrolytic Cap.	1.00 50.0V				01
C210	UR896470	Electrolytic Cap.	4.7 100.0V				
C211	UR896470	Electrolytic Cap.	4.7 100.0V				
C212	FU451680	Mica Capacitor	68P 500V J				01
C213	FU451820	Mica Capacitor	82P 500V J				01
C214	VZ354000	Ceramic Capacitor-F	0.0100 50V Z				01
C215	VZ354000	Ceramic Capacitor-F	0.0100 50V Z				01
C216	UR877100	Electrolytic Cap.	10.00 63.0V				01
C217	UR877100	Electrolytic Cap.	10.00 63.0V				01
C218	VZ354000	Ceramic Capacitor-F	0.0100 50V Z				01
C219	VZ353900	Ceramic Capacitor-B	1000P 50V K				01
C220	VZ353900	Ceramic Capacitor-B	1000P 50V K				01
C221	UA953220	Mylar Capacitor	2200P 50V J				01
C222	V4567500	Ceramic Capacitor-SL	10P 500V K				
C223	V4567500	Ceramic Capacitor-SL	10P 500V K				
CN101	VV066300	Base Post	3P TE				01
CN102	VV067200	Base Post	12P TE				01
CN103	LB932040	Base Post	4P TE				01
CN104	VV066200	Base Post	2P TE				01
CN105	LB932060	Base Post	6P TE				01
CN106	LB932030	Base Post	3P TE				01
D101	VD631600	Diode	1SS133,176,HSS104				01
-107	VD631600	Diode	1SS133,176,HSS104				01
D108	VG437700	Zener Diode	MTZ J 5.6B 5.6V				01
D109	VG437700	Zener Diode	MTZ J 5.6B 5.6V				01
D110	VD631600	Diode	1SS133,176,HSS104				01
D111	VD631600	Diode	1SS133,176,HSS104				01
D112	IF005560	Diode	1SS82TD				01
-115	IF005560	Diode	1SS82TD				01
D116	VN478200	Diode	D1NL20U				01
D117	VN478200	Diode	D1NL20U				01
D118	VU801600	Diode	1N4004L				01
D119	VU801600	Diode	1N4004L				01
D120	VR149700	Twin Diode	D8LD40 8.0A 400V				04
D121	VU801600	Diode	1N4004L				01
D122	VS135800	Twin Diode	FMX-22S 10.0A 200V				03
D123	VR149700	Twin Diode	D8LD40 8.0A 400V				04
D124	VU801600	Diode	1N4004L				01
D125	VS135800	Twin Diode	FMX-22S 10.0A 200V				03
D126	V2261600	Diode	RBV-1306 13.0A 600				04
-134	VU801600	Diode	1N4004L				01
D135	VG440800	Zener Diode	MTZ J 15.0B 15.0V				01
D136	VD631600	Diode	1SS133,176,HSS104				01
D137	VG438900	Zener Diode	MTZ J 8.2B 8.2V				01
D138	VU801600	Diode	1N4004L				01
-140	VU801600	Diode	1N4004L				01
D141	VG440800	Zener Diode	MTZ J 15.0B 15.0V				01
D142	VV335500	Zener Diode	MTZ J 43 43.0V				01
-144	VV335500	Zener Diode	MTZ J 43 43.0V				01
D145	VG438900	Zener Diode	MTZ J 8.2B 8.2V				01
D146	VQ469600	Diode	HSS82				01
D147	VQ469600	Diode	HSS82				01
D148	VD631600	Diode	1SS133,176,HSS104				01
D201	VD631600	Diode	1SS133,176,HSS104				01
-207	VD631600	Diode	1SS133,176,HSS104				01
D208	VG437700	Zener Diode	MTZ J 5.6B 5.6V				01
D209	VG437700	Zener Diode	MTZ J 5.6B 5.6V				01
D210	VD631600	Diode	1SS133,176,HSS104				01
D211	VD631600	Diode	1SS133,176,HSS104				01
D212	IF005560	Diode	1SS82TD				01
-215	IF005560	Diode	1SS82TD				01
D216	VN478200	Diode	D1NL20U				01
D217	VN478200	Diode	D1NL20U				01
D218	VU801600	Diode	1N4004L				01

✻: New Parts

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
D219	VU801600	Diode	1N4004L				01
F101	VV070600	Fuse	TDS 2A 250V J/U/C		J,U		01
F101	VV071500	Fuse	TSD 2A 250V SEMKO		H		01
F102	VV070600	Fuse	TDS 2A 250V J/U/C		J,U		01
F102	VV071500	Fuse	TSD 2A 250V SEMKO		H		01
IC101	XQ212A00	IC	NJM4558L-D		OP AMP		03
IC102	XD853A00	IC	NJM7815FA		REGULATOR		03
IC103	XD854A00	IC	NJM7915FA		REGULATOR		03
IC104	XJ607A00	IC	NJM7805FA		REGULATOR 5V		02
IC201	XQ212A00	IC	NJM4558L-D		OP AMP		03
L101	V4668300	Coil	OH-20 100UH				08
L102	V4668300	Coil	OH-20 100UH				08
L103	GE300670	Ferrite Bead	BL02RN2-R62T4				02
L104	GE300670	Ferrite Bead	BL02RN2-R62T4				02
L105	VR150900	Coil	RZ-001 21mm				02
L106	VR150900	Coil	RZ-001 21mm				02
PR101	VL964800	Polyphonic Resistor	PTH9M04BH222TS2				04
PR102	VL965100	Polyphonic Resistor	PTH9M04BE222TS2				04
Q101	IA101590	Transistor	2SA1015 O,Y				01
Q102	IA101590	Transistor	2SA1015 O,Y				01
Q103	IC1815M0	Transistor	2SC1815 Y,GR				01
Q104	IC1815M0	Transistor	2SC1815 Y,GR				01
Q105	VD678700	Digital Transistor	DTC114ES				01
Q106	VD678700	Digital Transistor	DTC114ES				01
Q107	VD678500	Digital Transistor	DTA114ES				01
Q108	IA097030	Transistor	2SA970 GR,BL				01
Q109	IA097030	Transistor	2SA970 GR,BL				01
Q110	IC224030	Transistor	2SC2240 GR,BL				01
Q111	IC1815M0	Transistor	2SC1815 Y,GR				01
Q112	IC1815M0	Transistor	2SC1815 Y,GR				01
Q113	IA097030	Transistor	2SA970 GR,BL				01
Q114	VU418400	Transistor	2SA1371 D,E				01
Q115	VU418600	Transistor	2SC3468 D,E				01
Q116	VU418400	Transistor	2SA1371 D,E				01
Q117	VU418600	Transistor	2SC3468 D,E				01
Q118	V2797700	Transistor	2SC5395 E,F				01
Q119	V2797600	Transistor	2SA1993 E,F				01
Q120	VU418600	Transistor	2SC3468 D,E				01
Q121	VU418400	Transistor	2SA1371 D,E				01
Q122N	VR732800	Pair Transistor	A1859A/C4883A				04
Q122P	VR732800	Pair Transistor	A1859A/C4883A				04
Q123N	V5611000	Pair Transistor	A1386A/C3519A				05
Q123P	V5611000	Pair Transistor	A1386A/C3519A				05
Q124N	V5611000	Pair Transistor	A1386A/C3519A				05
Q124P	V5611000	Pair Transistor	A1386A/C3519A				05
Q125	VU418600	Transistor	2SC3468 D,E				01
Q126	VU418400	Transistor	2SA1371 D,E				01
Q127N	VR732800	Pair Transistor	A1859A/C4883A				04
Q127P	VR732800	Pair Transistor	A1859A/C4883A				04
Q128N	V5611000	Pair Transistor	A1386A/C3519A				05
Q128P	V5611000	Pair Transistor	A1386A/C3519A				05
Q129N	V5611000	Pair Transistor	A1386A/C3519A				05
Q129P	V5611000	Pair Transistor	A1386A/C3519A				05
Q130N	VR732800	Pair Transistor	A1859A/C4883A				04
Q130P	VR732800	Pair Transistor	A1859A/C4883A				04
Q131N	V5611000	Pair Transistor	A1386A/C3519A				05
Q131P	V5611000	Pair Transistor	A1386A/C3519A				05
Q132N	V5611000	Pair Transistor	A1386A/C3519A				05
Q132P	V5611000	Pair Transistor	A1386A/C3519A				05
Q133N	V5611000	Pair Transistor	A1386A/C3519A				05
Q133P	V5611000	Pair Transistor	A1386A/C3519A				05
Q134	V2797700	Transistor	2SC5395 E,F				01
Q135	V2797600	Transistor	2SA1993 E,F				01
Q136	V2797700	Transistor	2SC5395 E,F				01
-138	V2797700	Transistor	2SC5395 E,F				01
Q139	V2797600	Transistor	2SA1993 E,F				01
Q140	V2797700	Transistor	2SC5395 E,F				01
Q141	V2797700	Transistor	2SC5395 E,F				01
Q142	VS883400	Transistor	2SD2394 E,F				02
Q143	VS883400	Transistor	2SD2394 E,F				02

✻: New Parts

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
Q144	**VD678500**	Digital Transistor	DTA114ES				01
Q201	**IA101590**	Transistor	2SA1015 O,Y				01
Q202	**IA101590**	Transistor	2SA1015 O,Y				01
Q203	**IC1815M0**	Transistor	2SC1815 Y,GR				01
Q204	**IC1815M0**	Transistor	2SC1815 Y,GR				01
Q205	**VD678700**	Digital Transistor	DTC114ES				01
Q206	**VD678700**	Digital Transistor	DTC114ES				01
Q207	**VD678500**	Digital Transistor	DTA114ES				01
Q208	**IA097030**	Transistor	2SA970 GR,BL				01
Q209	**IA097030**	Transistor	2SA970 GR,BL				01
Q210	**IC224030**	Transistor	2SC2240 GR,BL				01
Q211	**IC1815M0**	Transistor	2SC1815 Y,GR				01
Q212	**IC1815M0**	Transistor	2SC1815 Y,GR				01
Q213	**IA097030**	Transistor	2SA970 GR,BL				01
Q214	**VU418400**	Transistor	2SA1371 D,E				01
Q215	**VU418600**	Transistor	2SC3468 D,E				01
Q216	**VU418400**	Transistor	2SA1371 D,E				01
Q217	**VU418600**	Transistor	2SC3468 D,E				01
Q218	**V2797700**	Transistor	2SC5395 E,F				01
Q219	**V2797600**	Transistor	2SA1993 E,F				01
Q220	**VU418600**	Transistor	2SC3468 D,E				01
Q221	**VU418400**	Transistor	2SA1371 D,E				01
Q222N	**VR732800**	Pair Transistor	A1859A/C4883A				04
Q222P	**VR732800**	Pair Transistor	A1859A/C4883A				04
Q223N	**V5611000**	Pair Transistor	A1386A/C3519A				05
Q223P	**V5611000**	Pair Transistor	A1386A/C3519A				05
Q224N	**V5611000**	Pair Transistor	A1386A/C3519A				05
Q224P	**V5611000**	Pair Transistor	A1386A/C3519A				05
R101	**V2961300**	Metal Film Resistor	16K 1/4 F				
R102	**HF457150**	Carbon Resistor	15.0K 1/4 J				01
R103	**VZ009900**	Metal Film Resistor	15K 1/4 F				01
R104	**HF457560**	Carbon Resistor	56.0K 1/4 J				01
R105	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
R106	**HF454680**	Carbon Resistor	68.0 1/4 J				01
R107	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
R108	**HF457560**	Carbon Resistor	56.0K 1/4 J				01
R109	**HF454680**	Carbon Resistor	68.0 1/4 J				01
R110	**HF456150**	Carbon Resistor	1.5K 1/4 J				01
R111	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
R112	**HF455330**	Carbon Resistor	330.0 1/4 J				01
R113	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
R114	**VV312800**	Metal Film Resistor	680.0 1/4 F				01
R115	**HF457220**	Carbon Resistor	22.0K 1/4 J				01
R116	**HF458390**	Carbon Resistor	390.0K 1/4 J				01
R117	**HF458390**	Carbon Resistor	390.0K 1/4 J				01
R118	**HF457820**	Carbon Resistor	82.0K 1/4 J				01
R119	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R120	**HF457220**	Carbon Resistor	22.0K 1/4 J				01
R121	**HF458330**	Carbon Resistor	330.0K 1/4 J				01
R122	**HF455560**	Carbon Resistor	560.0 1/4 J				01
-124	**HF455560**	Carbon Resistor	560.0 1/4 J				01
R125	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
R126	**HF455330**	Carbon Resistor	330.0 1/4 J				01
R127	**VV312900**	Metal Film Resistor	22K 1/4 F				01
R128	**HF455330**	Carbon Resistor	330.0 1/4 J				01
R129	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R130	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R131	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
-134	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
R135	**HF455560**	Carbon Resistor	560.0 1/4 J				01
R136	**HF455560**	Carbon Resistor	560.0 1/4 J				01
R137	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
R138	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
R139	**VV313800**	Flame Proof C. Resistor	220.0 1/4 J				01
R140	**VV313800**	Flame Proof C. Resistor	220.0 1/4 J				01
R141	**VZ009300**	Flame Proof C. Resistor	330.0 1/4 J				01
R142	**VZ009300**	Flame Proof C. Resistor	330.0 1/4 J				01
R143	**VV276800**	Flame Proof C. Resistor	100 1/4 J				01
-146	**VV276800**	Flame Proof C. Resistor	100 1/4 J				01
R147	**VZ009100**	Flame Proof C. Resistor	33.0 1/4 J				01

✻: New Parts

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
R148	**VZ009100**	Flame Proof C. Resistor	33.0 1/4 J				01
R149	**VZ008800**	Flame Proof C. Resistor	22.0 1/4 J				01
R150	**VZ008800**	Flame Proof C. Resistor	22.0 1/4 J				01
R151	**V4833200**	Cement Resistor	0.22 5W K				01
R152	**V4833200**	Cement Resistor	0.22 5W K				01
R153	**VZ009100**	Flame Proof C. Resistor	33.0 1/4 J				01
R154	**VZ009100**	Flame Proof C. Resistor	33.0 1/4 J				01
R155	**VZ008800**	Flame Proof C. Resistor	22.0 1/4 J				01
R156	**VZ008800**	Flame Proof C. Resistor	22.0 1/4 J				01
R157	**V4833200**	Cement Resistor	0.22 5W K				01
R158	**V4833200**	Cement Resistor	0.22 5W K				01
R159	**VV058500**	Flame Proof C. Resistor	10.0 1/4 J				01
R160	**HF458150**	Carbon Resistor	150.0K 1/4 J				01
R161	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
R162	**VZ008800**	Flame Proof C. Resistor	22.0 1/4 J				01
R163	**VZ008700**	Flame Proof C. Resistor	2.2K 1/4 J				01
R164	**VZ008600**	Flame Proof C. Resistor	150.0 1/4 J				01
R165	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
R166	**VZ370200**	Cement Resistor	0.1 5W K				01
R167	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
R168	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
R169	**VZ370200**	Cement Resistor	0.1 5W K				01
R170	**VV276700**	Flame Proof C. Resistor	4.7 1/4 J				01
R171	**VV276700**	Flame Proof C. Resistor	4.7 1/4 J				01
R172	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
-174	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
R175	**VV313900**	Flame Proof C. Resistor	680.0 1/4 J				01
R176	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
R177	**VZ008800**	Flame Proof C. Resistor	22.0 1/4 J				01
R178	**VZ008700**	Flame Proof C. Resistor	2.2K 1/4 J				01
R179	**VZ008600**	Flame Proof C. Resistor	150.0 1/4 J				01
R180	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
R181	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
R182	**VZ370200**	Cement Resistor	0.1 5W K				01
R183	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
R184	**VZ370200**	Cement Resistor	0.1 5W K				01
R185	**VV276700**	Flame Proof C. Resistor	4.7 1/4 J				01
R186	**VV276700**	Flame Proof C. Resistor	4.7 1/4 J				01
R187	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
-189	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
R190	**VV313900**	Flame Proof C. Resistor	680.0 1/4 J				01
R191	**VV313800**	Flame Proof C. Resistor	220.0 1/4 J				01
R192	**VV313800**	Flame Proof C. Resistor	220.0 1/4 J				01
R193	**HF455100**	Carbon Resistor	100.0 1/4 J				01
R194	**HF455100**	Carbon Resistor	100.0 1/4 J				01
R195	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
R201	**V2961300**	Metal Film Resistor	16K 1/4 F				
R202	**HF457150**	Carbon Resistor	15.0K 1/4 J				01
R203	**VZ009900**	Metal Film Resistor	15K 1/4 F				01
R204	**HF457560**	Carbon Resistor	56.0K 1/4 J				01
R205	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
R206	**HF454680**	Carbon Resistor	68.0 1/4 J				01
R207	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
R208	**HF457560**	Carbon Resistor	56.0K 1/4 J				01
R209	**HF454680**	Carbon Resistor	68.0 1/4 J				01
R210	**HF456150**	Carbon Resistor	1.5K 1/4 J				01
R211	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
R212	**HF455330**	Carbon Resistor	330.0 1/4 J				01
R213	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
R214	**VV312800**	Metal Film Resistor	680.0 1/4 F				01
R215	**HF457220**	Carbon Resistor	22.0K 1/4 J				01
R216	**HF458390**	Carbon Resistor	390.0K 1/4 J				01
R217	**HF458390**	Carbon Resistor	390.0K 1/4 J				01
R218	**HF457820**	Carbon Resistor	82.0K 1/4 J				01
R219	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R220	**HF457220**	Carbon Resistor	22.0K 1/4 J				01
R221	**HF458330**	Carbon Resistor	330.0K 1/4 J				01
R222	**HF455560**	Carbon Resistor	560.0 1/4 J				01
-224	**HF455560**	Carbon Resistor	560.0 1/4 J				01
R225	**HF457470**	Carbon Resistor	47.0K 1/4 J				01

✻: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	R226	**HF455330**	Carbon Resistor	330.0 1/4 J				01
	R227	**VV312900**	Metal Film Resistor	22K 1/4 F				01
	R228	**HF455330**	Carbon Resistor	330.0 1/4 J				01
	R229	**HF455220**	Carbon Resistor	220.0 1/4 J				01
	R230	**HF455220**	Carbon Resistor	220.0 1/4 J				01
	R231	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
	-234	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
	R235	**HF455560**	Carbon Resistor	560.0 1/4 J				01
	R236	**HF455560**	Carbon Resistor	560.0 1/4 J				01
	R237	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
	R238	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
	R239	**VV313800**	Flame Proof C. Resistor	220.0 1/4 J				01
	R240	**VV313800**	Flame Proof C. Resistor	220.0 1/4 J				01
	R241	**VZ009300**	Flame Proof C. Resistor	330.0 1/4 J				01
	R242	**VZ009300**	Flame Proof C. Resistor	330.0 1/4 J				01
	R243	**VV276800**	Flame Proof C. Resistor	100 1/4 J				01
	-246	**VV276800**	Flame Proof C. Resistor	100 1/4 J				01
	R247	**VZ009100**	Flame Proof C. Resistor	33.0 1/4 J				01
	R248	**VZ009100**	Flame Proof C. Resistor	33.0 1/4 J				01
	R249	**VZ008800**	Flame Proof C. Resistor	22.0 1/4 J				01
	R250	**VZ008800**	Flame Proof C. Resistor	22.0 1/4 J				01
	R251	**V4833200**	Cement Resistor	0.22 5W K				01
	R252	**V4833200**	Cement Resistor	0.22 5W K				01
	R253	**VZ009100**	Flame Proof C. Resistor	33.0 1/4 J				01
	R254	**VZ009100**	Flame Proof C. Resistor	33.0 1/4 J				01
	R255	**VZ008800**	Flame Proof C. Resistor	22.0 1/4 J				01
	R256	**VZ008800**	Flame Proof C. Resistor	22.0 1/4 J				01
	R257	**V4833200**	Cement Resistor	0.22 5W K				01
	R258	**V4833200**	Cement Resistor	0.22 5W K				01
	R259	**VV058500**	Flame Proof C. Resistor	10.0 1/4 J				01
	R260	**HF458150**	Carbon Resistor	150.0K 1/4 J				01
	R261	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R262	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R263	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
	R264	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
	R265	**HF457560**	Carbon Resistor	56.0K 1/4 J				01
	R266	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R267	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
	R268	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
	R269	**HF455330**	Carbon Resistor	330.0 1/4 J				01
	R270	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
	R271	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
	R272	**HF455100**	Carbon Resistor	100.0 1/4 J				01
	R273	**HF457560**	Carbon Resistor	56.0K 1/4 J				01
	R274	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	R275	**HF457220**	Carbon Resistor	22.0K 1/4 J				01
	R276	**HF457150**	Carbon Resistor	15.0K 1/4 J				01
	R293	**HF455100**	Carbon Resistor	100.0 1/4 J				01
	R294	**HF455100**	Carbon Resistor	100.0 1/4 J				01
	R295	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
	R296	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
	RY101	**VV315400**	Relay	DC OSA-SH-224DM3M				06
	RY102	**VV315400**	Relay	DC OSA-SH-224DM3M				06
*		**AAX24850**	Circuit Board	PWR2 1/3		J (V698350)(XZ657B0)		
*		**AAX24860**	Circuit Board	PWR2 1/3		U (V698360)(XZ657B0)		
*		**AAX24870**	Circuit Board	PWR2 1/3		H,A (V698370)(XZ657B0)		
*		**AAX24880**	Circuit Board	PWR2 2/3		(V698350)(XZ657B0)		
*		**AAX24890**	Circuit Board	PWR2 3/3		(V698350)(XZ657B0)		
		--	Jumper Wire	0.60		(VV29140)		01
		VV319600	Fuse Holder	CQ-05CT				01
		V3225000	Ferrite Core	FR25/15/12-D40				03
		--	Connector Assembly	SGND		(V676790)		
⚠ *	C301	**V0039700**	Capacitor	0.1 275V UCS		J		
⚠	C302	**V6113500**	Capacitor	1000P 400V J.U.C.S		J		
⚠	C303	**V6185400**	Capacitor	3300P 400V J.U.C.S		U		
⚠	C303	**VY704000**	Capacitor	4700P 400V J.U.C.S		H		01
⚠	C304	**V6185400**	Capacitor	3300P 400V J.U.C.S		U		
⚠	C304	**VY704000**	Capacitor	4700P 400V J.U.C.S		H		01
	C305	**VZ354600**	Monolithic Capacitor	0.10 50V Z				01

✻: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
-308	**VZ354600**	Monolithic Capacitor	0.10 50V Z				01
C309	**V3280500**	Ceramic Capacitor-B	100P 500 K				01
C310	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C311	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C312	**VY897000**	Electrolytic Cap.	6800 100V				08
C313	**VY897000**	Electrolytic Cap.	6800 100V				08
CN301	**LB933030**	Base Post	3P SE				01
⚠ CN302	**V5817000**	AC Inlet	HF-301L				
E301	**VV075700**	Terminal Plate					01
F301	**KB001380**	Fuse	15.00A U		J		04
F301	**KB001540**	Fuse	12.00A UL		U		04
F301	**KB003360**	Fuse	T 6.30A S		H		02
J301	--	Jumper Wire	0.60		(VV29140)		01
J302	--	Jumper Wire	0.60		(VV29140)		01
JK301	**VV089300**	Phone Connector	H30280072N		SPEAKERS(R/MONO1,2,		02
-305	**VV089300**	Phone Connector	H30280072N		BRIDGE,L/MONO1.2)		02
R301	**VV058500**	Flame Proof C. Resistor	10.0 1/4 J				01
R302	**VV058500**	Flame Proof C. Resistor	10.0 1/4 J				01
R303	**HF458150**	Carbon Resistor	150.0K 1/4 J				01
R304	**HF458150**	Carbon Resistor	150.0K 1/4 J				01
⚠ SW301	**VY898100**	Push Switch	SDDFA3107U-YL UCS		POWER Switch		05
W301	--	Connector Assembly	B&C #18 4P		(V702070)		
W302	--	Connector Assembly	B&C #18 3P		(V702080)		
*	**V6983200**	Circuit Board	DSP J		(XZ633B0)		
C101	**UX064100**	Ceramic Capacitor (chip)	0.0100 50V K				
-110	**UX064100**	Ceramic Capacitor (chip)	0.0100 50V K				
C111	**UY065100**	Ceramic Capacitor (chip)	0.1000 50V Z				
C112	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C113	**UY065100**	Ceramic Capacitor (chip)	0.1000 50V Z				
C114	**UY065100**	Ceramic Capacitor (chip)	0.1000 50V Z				
C115	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C116	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C117	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C118	**VV190000**	Mylar Capacitor	820P 50V J				01
C119	**VV190000**	Mylar Capacitor	820P 50V J				01
C120	**UX062100**	Ceramic Capacitor (chip)	100P 50V J				
C121	**UX062100**	Ceramic Capacitor (chip)	100P 50V J				
C122	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
-124	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C125	**UA953820**	Mylar Capacitor	8200P 50V J				
C126	**UA953820**	Mylar Capacitor	8200P 50V J				
C127	**UA953270**	Mylar Capacitor	2700P 50V J				01
C128	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C129	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C130	**UY065100**	Ceramic Capacitor (chip)	0.1000 50V Z				
-132	**UY065100**	Ceramic Capacitor (chip)	0.1000 50V Z				
C133	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
-136	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C137	**UX062470**	Ceramic Capacitor (chip)	470P 50V J				
C138	**UX062470**	Ceramic Capacitor (chip)	470P 50V J				
C139	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C140	**UY065100**	Ceramic Capacitor (chip)	0.1000 50V Z				
C141	**UY065100**	Ceramic Capacitor (chip)	0.1000 50V Z				
C142	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C143	**UY065100**	Ceramic Capacitor (chip)	0.1000 50V Z				
-146	**UY065100**	Ceramic Capacitor (chip)	0.1000 50V Z				
C147	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C148	**UY065100**	Ceramic Capacitor (chip)	0.1000 50V Z				
C149	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
C150	**UR847220**	Electrolytic Cap.	22.00 25.0V				01
C151	**UY065100**	Ceramic Capacitor (chip)	0.1000 50V Z				
C152	**UY065100**	Ceramic Capacitor (chip)	0.1000 50V Z				
C153	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C154	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CN101	**VV067300**	Base Post	13P TE				
CN102	**VV066300**	Base Post	3P TE				01
D101	**VT332900**	Diode	1SS355 TE-17				01
EM101	**GE300670**	Ferrite Bead	BL02RN2-R62T4				02
-107	**GE300670**	Ferrite Bead	BL02RN2-R62T4				02

✻: New Parts

RANK: Japan only

	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	EM108	**VV056900**	Noise Filter	ZJSR5101-223TA				01
	-111	**VV056900**	Noise Filter	ZJSR5101-223TA				01
	IC101	**XZ110A00**	IC	74HCU04DT		INVERTER		01
	IC102	**XZ312A00**	IC	UPD78082		MCU		05
	IC103	**IG103520**	IC	NJM4558MT-1		OP AMP		03
*	IC104	**X0053A00**	IC	PCM3001E/2K		ADA		
	IC105	**XY297A00**	IC	ZFX-2		ZFX-2		13
	IC106	**XW125A00**	IC	SDM4260CLTM-6S		4M DRAM		08
	IC107	**XJ607A00**	IC	NJM7805FA		REGULATOR 5V		02
	Q101	**VV556400**	Transistor	2SC2412K Q,R,S				01
	Q102	**VV655400**	Digital Transistor	DTC114EKA TP				01
	Q103	**VV556400**	Transistor	2SC2412K Q,R,S				01
	Q104	**VV655000**	Digital Transistor	DTA114EKA TP				01
	Q105	**VV655000**	Digital Transistor	DTA114EKA TP				01
	Q106	**VV655400**	Digital Transistor	DTC114EKA TP				01
	Q107	**VV556400**	Transistor	2SC2412K Q,R,S				01
	Q108	**VV556400**	Transistor	2SC2412K Q,R,S				01
	R101	**RG005100**	Carbon Resistor (chip)	100 0.1 J				
	-105	**RG005100**	Carbon Resistor (chip)	100 0.1 J				
*	R106	**RG004100**	Carbon Resistor (chip)	10 0.1 J				
*	-108	**RG004100**	Carbon Resistor (chip)	10 0.1 J				
	R109	**RG005100**	Carbon Resistor (chip)	100 0.1 J				
	R110	**RG005100**	Carbon Resistor (chip)	100 0.1 J				
	R111	**RG007100**	Carbon Resistor (chip)	10K 0.1 J				
	-113	**RG007100**	Carbon Resistor (chip)	10K 0.1 J				
	R114	**RG005100**	Carbon Resistor (chip)	100 0.1 J				
	-116	**RG005100**	Carbon Resistor (chip)	100 0.1 J				
	R117	**RG009100**	Carbon Resistor (chip)	1.0M 0.1 J				
	R118	**RG007100**	Carbon Resistor (chip)	10K 0.1 J				
	R119	**RG006100**	Carbon Resistor (chip)	1.0K 0.1 J				
	R120	**RG005220**	Carbon Resistor (chip)	220 0.1 J				
	R121	**RG005100**	Carbon Resistor (chip)	100 0.1 J				
	R122	**RG007220**	Carbon Resistor (chip)	22K 0.1 J				
	R123	**RG009100**	Carbon Resistor (chip)	1.0M 0.1 J				
	R124	**RG006100**	Carbon Resistor (chip)	1.0K 0.1 J				
*	R125	**RG007270**	Carbon Resistor (chip)	27K 0.1 J				
	R126	**RG007100**	Carbon Resistor (chip)	10K 0.1 J				
	R127	**RG007100**	Carbon Resistor (chip)	10K 0.1 J				
	R128	**RG008100**	Carbon Resistor (chip)	100K 0.1 J				
	-131	**RG008100**	Carbon Resistor (chip)	100K 0.1 J				
	R132	**RG006100**	Carbon Resistor (chip)	1.0K 0.1 J				
	R133	**RG006100**	Carbon Resistor (chip)	1.0K 0.1 J				
*	R134	**RG007680**	Carbon Resistor (chip)	68K 0.1 J				
*	R135	**RG007680**	Carbon Resistor (chip)	68K 0.1 J				
	R136	**RG007220**	Carbon Resistor (chip)	22K 0.1 J				
	R137	**RG007220**	Carbon Resistor (chip)	22K 0.1 J				
*	R138	**RG006910**	Carbon Resistor (chip)	9.1K 0.1 J				
*	R139	**RG006910**	Carbon Resistor (chip)	9.1K 0.1 J				
*	R140	**RG006300**	Carbon Resistor (chip)	3.0K 0.1 J				
*	R141	**RG007300**	Carbon Resistor (chip)	30K 0.1 J				
*	R142	**RG006130**	Carbon Resistor (chip)	1.3K 0.1 J				
*	R143	**RG006130**	Carbon Resistor (chip)	1.3K 0.1 J				
	R144	**RG009100**	Carbon Resistor (chip)	1.0M 0.1 J				
	R145	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
	R146	**RG006100**	Carbon Resistor (chip)	1.0K 0.1 J				
	R147	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
	R148	**VV313600**	Flame Proof C. Resistor	2.2 1/4 J				01
	RA101	**V6338000**	Resistor Array	RA1/8 9A 223J				
	RA102	**V6338100**	Resistor Array	RA1/8 7A 223J				
	TP101	**VV066200**	Base Post	2P TE				01
	X101	**VD827600**	Ceramic Resonator	0.1% 4.0MHZ				02
*		**V6983100**	Circuit Board	MAIN J		(XT783H0)		
		VV307300	LED Spacer					01
		V4467500	Push Switch	CD-GRAY/WHITE		PFL(CH1-12,ST SUB1,2, TAPE IN ST),AFL(MONI1,2, EFFECT,ST1,MONO),G.EQ ON, PROGRAM ON,CH9-12(A,B)		01
		VB966900	Style Pin	IMSA-6024				01
	C101	**UR867470**	Electrolytic Cap.	47.00 50.0V				01

✻: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C102	**VV488800**	Electrolytic Cap.-LLM	10.00 50.0V				01
C103	**VV488800**	Electrolytic Cap.-LLM	10.00 50.0V				01
C104	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C105	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C106	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C107	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C108	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
C109	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
C110	**UR828470**	Electrolytic Cap.	470.00 10.0V				01
C111	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
C112	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
C113	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C114	**VZ353000**	Ceramic Capacitor-SL	33P 50V J				01
C115	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C116	**UA954150**	Mylar Capacitor	0.0150 50V J				01
C117	**VV061400**	Mylar Capacitor	0.010 50V J				01
C118	**VV061500**	Mylar Capacitor	0.012 50V J				01
C119	**UA953390**	Mylar Capacitor	3900P 50V J				01
C120	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C121	**VZ352900**	Ceramic Capacitor-SL	27P 50V J				01
C122	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C123	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C124	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C125	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C126	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C127	**UR866470**	Electrolytic Cap.	4.70 50.0V				01
C128	**UA954470**	Mylar Capacitor	0.0470 50V J				01
C129	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
-132	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C133	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
C134	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C135	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C136	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C137	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
-139	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C140	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C141	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C142	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C201	**UR867470**	Electrolytic Cap.	47.00 50.0V				01
C202	**VV488800**	Electrolytic Cap.-LLM	10.00 50.0V				01
C203	**VV488800**	Electrolytic Cap.-LLM	10.00 50.0V				01
C204	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C205	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C206	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C207	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C208	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
C209	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
C210	**UR828470**	Electrolytic Cap.	470.00 10.0V				01
C211	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
C212	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
C213	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C214	**VZ353000**	Ceramic Capacitor-SL	33P 50V J				01
C215	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C216	**UA954150**	Mylar Capacitor	0.0150 50V J				01
C217	**VV061400**	Mylar Capacitor	0.010 50V J				01
C218	**VV061500**	Mylar Capacitor	0.012 50V J				01
C219	**UA953390**	Mylar Capacitor	3900P 50V J				01
C220	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C221	**VZ352900**	Ceramic Capacitor-SL	27P 50V J				01
C222	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C223	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C224	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C225	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C226	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C227	**UR866470**	Electrolytic Cap.	4.70 50.0V				01
C228	**UA954470**	Mylar Capacitor	0.0470 50V J				01
C229	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C230	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C231	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C232	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01

✻: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
-234	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C235	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C301	**UR867470**	Electrolytic Cap.	47.00 50.0V				01
C302	**VV488800**	Electrolytic Cap.-LLM	10.00 50.0V				01
C303	**VV488800**	Electrolytic Cap.-LLM	10.00 50.0V				01
C304	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C305	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C306	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C307	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C308	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
C309	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
C310	**UR828470**	Electrolytic Cap.	470.00 10.0V				01
C311	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
C312	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
C313	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C314	**VZ353000**	Ceramic Capacitor-SL	33P 50V J				01
C315	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C316	**UA954150**	Mylar Capacitor	0.0150 50V J				01
C317	**VV061400**	Mylar Capacitor	0.010 50V J				01
C318	**VV061500**	Mylar Capacitor	0.012 50V J				01
C319	**UA953390**	Mylar Capacitor	3900P 50V J				01
C320	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C321	**VZ352900**	Ceramic Capacitor-SL	27P 50V J				01
C322	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C323	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C324	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C325	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C326	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C327	**UR866470**	Electrolytic Cap.	4.70 50.0V				01
C328	**UA954470**	Mylar Capacitor	0.0470 50V J				01
C329	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
-332	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C333	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
C334	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C335	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C336	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C337	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
-339	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C340	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C341	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C342	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C401	**UR867470**	Electrolytic Cap.	47.00 50.0V				01
C402	**VV488800**	Electrolytic Cap.-LLM	10.00 50.0V				01
C403	**VV488800**	Electrolytic Cap.-LLM	10.00 50.0V				01
C404	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C405	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C406	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C407	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C408	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
C409	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
C410	**UR828470**	Electrolytic Cap.	470.00 10.0V				01
C411	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
C412	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
C413	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C414	**VZ353000**	Ceramic Capacitor-SL	33P 50V J				01
C415	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C416	**UA954150**	Mylar Capacitor	0.0150 50V J				01
C417	**VV061400**	Mylar Capacitor	0.010 50V J				01
C418	**VV061500**	Mylar Capacitor	0.012 50V J				01
C419	**UA953390**	Mylar Capacitor	3900P 50V J				01
C420	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C421	**VZ352900**	Ceramic Capacitor-SL	27P 50V J				01
C422	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C423	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C424	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C425	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C426	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C427	**UR866470**	Electrolytic Cap.	4.70 50.0V				01
C428	**UA954470**	Mylar Capacitor	0.0470 50V J				01
C429	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C430	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C431	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C432	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
-434	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C435	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C501	**UR867470**	Electrolytic Cap.	47.00 50.0V				01
C502	**VV488800**	Electrolytic Cap.-LLM	10.00 50.0V				01
C503	**VV488800**	Electrolytic Cap.-LLM	10.00 50.0V				01
C504	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C505	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C506	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C507	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C508	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
C509	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
C510	**UR828470**	Electrolytic Cap.	470.00 10.0V				01
C511	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
C512	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
C513	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C514	**VZ353000**	Ceramic Capacitor-SL	33P 50V J				01
C515	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C516	**UA954150**	Mylar Capacitor	0.0150 50V J				01
C517	**VV061400**	Mylar Capacitor	0.010 50V J				01
C518	**VV061500**	Mylar Capacitor	0.012 50V J				01
C519	**UA953390**	Mylar Capacitor	3900P 50V J				01
C520	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C521	**VZ352900**	Ceramic Capacitor-SL	27P 50V J				01
C522	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C523	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C524	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C525	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C526	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C527	**UR866470**	Electrolytic Cap.	4.70 50.0V				01
C528	**UA954470**	Mylar Capacitor	0.0470 50V J				01
C529	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
-532	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C533	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
C534	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C535	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C537	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
-539	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C540	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C541	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C542	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C601	**UR867470**	Electrolytic Cap.	47.00 50.0V				01
C602	**VV488800**	Electrolytic Cap.-LLM	10.00 50.0V				01
C603	**VV488800**	Electrolytic Cap.-LLM	10.00 50.0V				01
C604	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C605	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C606	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C607	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C608	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
C609	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
C610	**UR828470**	Electrolytic Cap.	470.00 10.0V				01
C611	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
C612	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
C613	**VZ353800**	Ceramic Capacitor-B	470P 50V K				01
C614	**VZ353000**	Ceramic Capacitor-SL	33P 50V J				01
C615	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C616	**UA954150**	Mylar Capacitor	0.0150 50V J				01
C617	**VV061400**	Mylar Capacitor	0.010 50V J				01
C618	**VV061500**	Mylar Capacitor	0.012 50V J				01
C619	**UA953390**	Mylar Capacitor	3900P 50V J				01
C620	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C621	**VZ352900**	Ceramic Capacitor-SL	27P 50V J				01
C622	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C623	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C624	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C625	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C626	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C627	**UR866470**	Electrolytic Cap.	4.70 50.0V				01

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C628	UA954470	Mylar Capacitor	0.0470 50V J				01
C629	VZ354000	Ceramic Capacitor-F	0.0100 50V Z				01
C630	VZ354000	Ceramic Capacitor-F	0.0100 50V Z				01
C632	VZ353500	Ceramic Capacitor-SL	100P 50V J				01
-634	VZ353500	Ceramic Capacitor-SL	100P 50V J				01
C635	UR857470	Electrolytic Cap.	47.00 35.0V				01
C701	UR867470	Electrolytic Cap.	47.00 50.0V				01
C702	VV488800	Electrolytic Cap.-LLM	10.00 50.0V				01
C703	VV488800	Electrolytic Cap.-LLM	10.00 50.0V				01
C704	UR877100	Electrolytic Cap.	10.00 63.0V				01
C705	UR877100	Electrolytic Cap.	10.00 63.0V				01
C706	VZ353800	Ceramic Capacitor-B	470P 50V K				01
C707	VZ353800	Ceramic Capacitor-B	470P 50V K				01
C708	VZ353600	Ceramic Capacitor-B	220P 50V K				01
C709	VZ353600	Ceramic Capacitor-B	220P 50V K				01
C710	UR828470	Electrolytic Cap.	470.00 10.0V				01
C711	VZ352700	Ceramic Capacitor-SL	10P 50V J				01
C712	VZ352700	Ceramic Capacitor-SL	10P 50V J				01
C713	VZ353800	Ceramic Capacitor-B	470P 50V K				01
C714	VZ353000	Ceramic Capacitor-SL	33P 50V J				01
C715	UR877100	Electrolytic Cap.	10.00 63.0V				01
C716	UA954150	Mylar Capacitor	0.0150 50V J				01
C717	VV061400	Mylar Capacitor	0.010 50V J				01
C718	VV061500	Mylar Capacitor	0.012 50V J				01
C719	UA953390	Mylar Capacitor	3900P 50V J				01
C720	VZ353500	Ceramic Capacitor-SL	100P 50V J				01
C721	VZ352900	Ceramic Capacitor-SL	27P 50V J				01
C722	UR857470	Electrolytic Cap.	47.00 35.0V				01
C723	UR877100	Electrolytic Cap.	10.00 63.0V				01
C724	VZ353500	Ceramic Capacitor-SL	100P 50V J				01
C725	VZ353500	Ceramic Capacitor-SL	100P 50V J				01
C726	UR857470	Electrolytic Cap.	47.00 35.0V				01
C727	UR866470	Electrolytic Cap.	4.70 50.0V				01
C728	UA954470	Mylar Capacitor	0.0470 50V J				01
C729	VZ354000	Ceramic Capacitor-F	0.0100 50V Z				01
-732	VZ354000	Ceramic Capacitor-F	0.0100 50V Z				01
C733	VZ353900	Ceramic Capacitor-B	1000P 50V K				01
C734	VZ354000	Ceramic Capacitor-F	0.0100 50V Z				01
C735	VZ354000	Ceramic Capacitor-F	0.0100 50V Z				01
C737	VZ353500	Ceramic Capacitor-SL	100P 50V J				01
-739	VZ353500	Ceramic Capacitor-SL	100P 50V J				01
C740	UR857470	Electrolytic Cap.	47.00 35.0V				01
C741	VZ354000	Ceramic Capacitor-F	0.0100 50V Z				01
C742	VZ354000	Ceramic Capacitor-F	0.0100 50V Z				01
C801	UR867470	Electrolytic Cap.	47.00 50.0V				01
C802	VV488800	Electrolytic Cap.-LLM	10.00 50.0V				01
C803	VV488800	Electrolytic Cap.-LLM	10.00 50.0V				01
C804	UR877100	Electrolytic Cap.	10.00 63.0V				01
C805	UR877100	Electrolytic Cap.	10.00 63.0V				01
C806	VZ353800	Ceramic Capacitor-B	470P 50V K				01
C807	VZ353800	Ceramic Capacitor-B	470P 50V K				01
C808	VZ353600	Ceramic Capacitor-B	220P 50V K				01
C809	VZ353600	Ceramic Capacitor-B	220P 50V K				01
C810	UR828470	Electrolytic Cap.	470.00 10.0V				01
C811	VZ352700	Ceramic Capacitor-SL	10P 50V J				01
C812	VZ352700	Ceramic Capacitor-SL	10P 50V J				01
C813	VZ353800	Ceramic Capacitor-B	470P 50V K				01
C814	VZ353000	Ceramic Capacitor-SL	33P 50V J				01
C815	UR877100	Electrolytic Cap.	10.00 63.0V				01
C816	UA954150	Mylar Capacitor	0.0150 50V J				01
C817	VV061400	Mylar Capacitor	0.010 50V J				01
C818	VV061500	Mylar Capacitor	0.012 50V J				01
C819	UA953390	Mylar Capacitor	3900P 50V J				01
C820	VZ353500	Ceramic Capacitor-SL	100P 50V J				01
C821	VZ352900	Ceramic Capacitor-SL	27P 50V J				01
C822	UR857470	Electrolytic Cap.	47.00 35.0V				01
C823	UR877100	Electrolytic Cap.	10.00 63.0V				01
C824	VZ353500	Ceramic Capacitor-SL	100P 50V J				01
C825	VZ353500	Ceramic Capacitor-SL	100P 50V J				01
C826	UR857470	Electrolytic Cap.	47.00 35.0V				01

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
C827	**UR866470**	Electrolytic Cap.	4.70 50.0V				01
C828	**UA954470**	Mylar Capacitor	0.0470 50V J				01
C829	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C830	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C832	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
-834	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C835	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C901	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C902	**VZ353700**	Ceramic Capacitor-B	330P 50V K				01
C903	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C904	**UR828470**	Electrolytic Cap.	470.00 10.0V				01
C905	**VZ353700**	Ceramic Capacitor-B	330P 50V K				01
C906	**VZ353200**	Ceramic Capacitor-SL	47P 50V J				01
C907	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C908	**UA954150**	Mylar Capacitor	0.0150 50V J				01
C909	**VV061400**	Mylar Capacitor	0.010 50V J				01
C910	**VV061500**	Mylar Capacitor	0.012 50V J				01
C911	**UA953390**	Mylar Capacitor	3900P 50V J				01
C912	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C913	**VZ352900**	Ceramic Capacitor-SL	27P 50V J				01
C914	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C915	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
C916	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C917	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
C918	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
C920	**UA954470**	Mylar Capacitor	0.0470 50V J				01
C921	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
-926	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C927	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
C928	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
C929	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
CA01	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CA02	**VZ353700**	Ceramic Capacitor-B	330P 50V K				01
CA03	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CA04	**UR828470**	Electrolytic Cap.	470.00 10.0V				01
CA05	**VZ353700**	Ceramic Capacitor-B	330P 50V K				01
CA06	**VZ353200**	Ceramic Capacitor-SL	47P 50V J				01
CA07	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CA08	**UA954150**	Mylar Capacitor	0.0150 50V J				01
CA09	**VV061400**	Mylar Capacitor	0.010 50V J				01
CA10	**VV061500**	Mylar Capacitor	0.012 50V J				01
CA11	**UA953390**	Mylar Capacitor	3900P 50V J				01
CA12	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CA13	**VZ352900**	Ceramic Capacitor-SL	27P 50V J				01
CA14	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
CA15	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CA16	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CA17	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CA18	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
CB01	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CB02	**VZ353700**	Ceramic Capacitor-B	330P 50V K				01
CB03	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CB04	**UR828470**	Electrolytic Cap.	470.00 10.0V				01
CB05	**VZ353700**	Ceramic Capacitor-B	330P 50V K				01
CB06	**VZ353200**	Ceramic Capacitor-SL	47P 50V J				01
CB07	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CB08	**UA954150**	Mylar Capacitor	0.0150 50V J				01
CB09	**VV061400**	Mylar Capacitor	0.010 50V J				01
CB10	**VV061500**	Mylar Capacitor	0.012 50V J				01
CB11	**UA953390**	Mylar Capacitor	3900P 50V J				01
CB12	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CB13	**VZ352900**	Ceramic Capacitor-SL	27P 50V J				01
CB14	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
CB15	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CB16	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CB17	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CB18	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
CB20	**UA954470**	Mylar Capacitor	0.0470 50V J				01
CB21	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
-26	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01

✻: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
CB27	VZ353900	Ceramic Capacitor-B	1000P 50V K			01
CB28	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
CB29	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
CC01	UR877100	Electrolytic Cap.	10.00 63.0V			01
CC02	VZ353700	Ceramic Capacitor-B	330P 50V K			01
CC03	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
CC04	UR828470	Electrolytic Cap.	470.00 10.0V			01
CC05	VZ353700	Ceramic Capacitor-B	330P 50V K			01
CC06	VZ353200	Ceramic Capacitor-SL	47P 50V J			01
CC07	UR877100	Electrolytic Cap.	10.00 63.0V			01
CC08	UA954150	Mylar Capacitor	0.0150 50V J			01
CC09	VV061400	Mylar Capacitor	0.010 50V J			01
CC10	VV061500	Mylar Capacitor	0.012 50V J			01
CC11	UA953390	Mylar Capacitor	3900P 50V J			01
CC12	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
CC13	VZ352900	Ceramic Capacitor-SL	27P 50V J			01
CC14	UR857470	Electrolytic Cap.	47.00 35.0V			01
CC15	UR877100	Electrolytic Cap.	10.00 63.0V			01
CC16	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
CC17	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
CC18	UR857470	Electrolytic Cap.	47.00 35.0V			01
CD01	UR877100	Electrolytic Cap.	10.00 63.0V			01
-04	UR877100	Electrolytic Cap.	10.00 63.0V			01
CD05	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
-12	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
CD13	UR857470	Electrolytic Cap.	47.00 35.0V			01
-16	UR857470	Electrolytic Cap.	47.00 35.0V			01
CD17	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
-20	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
CD23	UR877100	Electrolytic Cap.	10.00 63.0V			01
CD24	UR877100	Electrolytic Cap.	10.00 63.0V			01
CD25	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
-28	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
CD29	VZ353400	Ceramic Capacitor-SL	68P 50V J			01
CD30	VZ353400	Ceramic Capacitor-SL	68P 50V J			01
CD31	UR877100	Electrolytic Cap.	10.00 63.0V			01
CD32	UR877100	Electrolytic Cap.	10.00 63.0V			01
CD33	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
CD34	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
CE01	VZ353600	Ceramic Capacitor-B	220P 50V K			01
CE02	VZ353200	Ceramic Capacitor-SL	47P 50V J			01
CE03	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
CE04	VZ353400	Ceramic Capacitor-SL	68P 50V J			01
CE05	UR857470	Electrolytic Cap.	47.00 35.0V			01
CE06	UA655820	Mylar Capacitor	0.8200 50V J			01
CE07	UA954820	Mylar Capacitor	0.0820 50V J			01
CE08	UA655470	Mylar Capacitor	0.4700 50V J			01
CE09	UA954390	Mylar Capacitor	0.0390 50V J			01
CE10	UA655220	Mylar Capacitor	0.2200 50V J			01
CE11	UA954180	Mylar Capacitor	0.0180 50V J			01
CE12	V5868900	Mylar Capacitor	0.1 50V J			
CE13	VV061400	Mylar Capacitor	0.010 50V J			01
CE14	UA954470	Mylar Capacitor	0.0470 50V J			01
CE15	UA953470	Mylar Capacitor	4700P 50V J			01
CE16	UA954270	Mylar Capacitor	0.0270 50V J			01
CE17	UA953220	Mylar Capacitor	2200P 50V J			01
CE18	VV061500	Mylar Capacitor	0.012 50V J			01
CE19	UA953120	Mylar Capacitor	1200P 50V J			01
CE20	VZ353600	Ceramic Capacitor-B	220P 50V K			01
CE21	UR857470	Electrolytic Cap.	47.00 35.0V			01
CE22	UR877100	Electrolytic Cap.	10.00 63.0V			01
CE23	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
CE24	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
CE25	VZ353400	Ceramic Capacitor-SL	68P 50V J			01
CE26	UR838100	Electrolytic Cap.	100.00 16.0V			01
CE27	UR877100	Electrolytic Cap.	10.00 63.0V			01
CE28	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
CE29	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
CE30	VZ353400	Ceramic Capacitor-SL	68P 50V J			01
CE31	UR838100	Electrolytic Cap.	100.00 16.0V			01

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
CE32	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
-35	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
CE36	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
CE37	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
-40	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
CE41	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CF01	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
CF02	**VZ353200**	Ceramic Capacitor-SL	47P 50V J				01
CF03	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CF04	**VZ353400**	Ceramic Capacitor-SL	68P 50V J				01
CF05	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
CF06	**UA655820**	Mylar Capacitor	0.8200 50V J				01
CF07	**UA954820**	Mylar Capacitor	0.0820 50V J				01
CF08	**UA655470**	Mylar Capacitor	0.4700 50V J				01
CF09	**UA954390**	Mylar Capacitor	0.0390 50V J				01
CF10	**UA655220**	Mylar Capacitor	0.2200 50V J				01
CF11	**UA954180**	Mylar Capacitor	0.0180 50V J				01
CF12	**V5868900**	Mylar Capacitor	0.1 50V J				
CF13	**VV061400**	Mylar Capacitor	0.010 50V J				01
CF14	**UA954470**	Mylar Capacitor	0.0470 50V J				01
CF15	**UA953470**	Mylar Capacitor	4700P 50V J				01
CF16	**UA954270**	Mylar Capacitor	0.0270 50V J				01
CF17	**UA953220**	Mylar Capacitor	2200P 50V J				01
CF18	**VV061500**	Mylar Capacitor	0.012 50V J				01
CF19	**UA953120**	Mylar Capacitor	1200P 50V J				01
CF20	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
CF21	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
CF22	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CF23	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CF24	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CF25	**VZ353400**	Ceramic Capacitor-SL	68P 50V J				01
CF26	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
CF27	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CF28	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CF29	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CF30	**VZ353400**	Ceramic Capacitor-SL	68P 50V J				01
CF31	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
CF32	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
-35	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
CF36	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
CF37	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CG01	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CG02	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CG03	**VZ353200**	Ceramic Capacitor-SL	47P 50V J				01
CG04	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CG05	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CG06	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CG07	**VZ352800**	Ceramic Capacitor-SL	22P 50V J				01
CG08	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
CG09	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
CG10	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
CG11	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CG12	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CG13	**VZ353400**	Ceramic Capacitor-SL	68P 50V J				01
CG14	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CG15	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
CG16	**UR857470**	Electrolytic Cap.	47.00 35.0V				01
CH01	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
CH02	**VZ353200**	Ceramic Capacitor-SL	47P 50V J				01
CH03	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CH04	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CH05	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CH06	**VZ352800**	Ceramic Capacitor-SL	22P 50V J				01
CH07	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
CH08	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
CH09	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
-12	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
CI01	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
CI02	**VZ353200**	Ceramic Capacitor-SL	47P 50V J				01
CI03	**UR877100**	Electrolytic Cap.	10.00 63.0V				01

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
CI04	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CI05	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CI06	**VZ352800**	Ceramic Capacitor-SL	22P 50V J				01
CI07	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
CJ01	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
CJ02	**VZ352800**	Ceramic Capacitor-SL	22P 50V J				01
CJ03	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CJ04	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CJ05	**VZ353500**	Ceramic Capacitor-SL	100P 50V J				01
CJ06	**VZ352800**	Ceramic Capacitor-SL	22P 50V J				01
CJ07	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
CJ08	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
CJ09	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
CJ10	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
CJ11	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
CJ12	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
CK01	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
CK02	**VZ352800**	Ceramic Capacitor-SL	22P 50V J				01
CK03	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CK04	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CK06	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
CK07	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
CK08	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
CK09	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
CK10	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
CK11	**VZ354000**	Ceramic Capacitor-F	0.0100 50V Z				01
CK12	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
CK13	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
CL01	**VZ353600**	Ceramic Capacitor-B	220P 50V K				01
CL02	**VZ352800**	Ceramic Capacitor-SL	22P 50V J				01
CL03	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CL04	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CL06	**VZ352700**	Ceramic Capacitor-SL	10P 50V J				01
CL07	**UR838100**	Electrolytic Cap.	100.00 16.0V				01
CL08	**VZ353900**	Ceramic Capacitor-B	1000P 50V K				01
CM01	**UR866470**	Electrolytic Cap.	4.70 50.0V				01
CM02	**UR866470**	Electrolytic Cap.	4.70 50.0V				01
CM03	**UA954470**	Mylar Capacitor	0.0470 50V J				01
CM04	**UA954470**	Mylar Capacitor	0.0470 50V J				01
CM05	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CM06	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CM07	**UR866470**	Electrolytic Cap.	4.70 50.0V				01
CM08	**UR866470**	Electrolytic Cap.	4.70 50.0V				01
CM09	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
-12	**UR877100**	Electrolytic Cap.	10.00 63.0V				01
CNM01	**VV067200**	Base Post	12P TE				01
CNM04	**VV067300**	Base Post	13P TE				
D901	**VD631600**	Diode	1SS133,176,HSS104				01
DA01	**VD631600**	Diode	1SS133,176,HSS104				01
DB01	**VD631600**	Diode	1SS133,176,HSS104				01
DC01	**VD631600**	Diode	1SS133,176,HSS104				01
EMK01	**VV056900**	Noise Filter	ZJSR5101-223TA				01
EML01	**VV056900**	Noise Filter	ZJSR5101-223TA				01
EMM01	**VV056900**	Noise Filter	ZJSR5101-223TA				01
ENM01	**VZ303900**	Rotary Encoder	SDB161PVB				06
IC101	**XM356A00**	IC	NJM2068L-D		OP AMP		02
-104	**XM356A00**	IC	NJM2068L-D		OP AMP		02
IC201	**XM356A00**	IC	NJM2068L-D		OP AMP		02
IC301	**XM356A00**	IC	NJM2068L-D		OP AMP		02
-304	**XM356A00**	IC	NJM2068L-D		OP AMP		02
IC401	**XM356A00**	IC	NJM2068L-D		OP AMP		02
IC501	**XM356A00**	IC	NJM2068L-D		OP AMP		02
-504	**XM356A00**	IC	NJM2068L-D		OP AMP		02
IC601	**XM356A00**	IC	NJM2068L-D		OP AMP		02
IC701	**XM356A00**	IC	NJM2068L-D		OP AMP		02
-704	**XM356A00**	IC	NJM2068L-D		OP AMP		02
IC801	**XM356A00**	IC	NJM2068L-D		OP AMP		02
IC901	**XM356A00**	IC	NJM2068L-D		OP AMP		02
-904	**XM356A00**	IC	NJM2068L-D		OP AMP		02
ICB01	**XM356A00**	IC	NJM2068L-D		OP AMP		02

✻: New Parts

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REF NO.	PART NO.	DESCRIPTION				REMARKS	QTY	RANK
-04	**XM356A00**	IC		NJM2068L-D		OP AMP		02
ICD01	**XM356A00**	IC		NJM2068L-D		OP AMP		02
-03	**XM356A00**	IC		NJM2068L-D		OP AMP		02
ICE01	**XM356A00**	IC		NJM2068L-D		OP AMP		02
ICE02	**XG203A00**	IC		M5229P		7-SEG. GRAPHIC		04
ICE03	**XF195A00**	IC		NJM4580L		OP AMP		04
ICE04	**XF195A00**	IC		NJM4580L		OP AMP		04
ICF01	**XM356A00**	IC		NJM2068L-D		OP AMP		02
ICF02	**XG203A00**	IC		M5229P		7-SEG. GRAPHIC		04
ICG01	**XF195A00**	IC		NJM4580L		OP AMP		04
ICH01	**XM356A00**	IC		NJM2068L-D		OP AMP		02
ICH02	**XF195A00**	IC		NJM4580L		OP AMP		04
ICJ01	**XM356A00**	IC		NJM2068L-D		OP AMP		02
ICJ02	**XF195A00**	IC		NJM4580L		OP AMP		04
ICK01	**XM356A00**	IC		NJM2068L-D		OP AMP		02
ICK02	**XP844A00**	IC		NJM4556AL		OP AMP		02
ICM01	**XS046A00**	IC		BA682A		LED LEVEL METER		06
ICM02	**XS046A00**	IC		BA682A		LED LEVEL METER		06
ICM03	**XJ608A00**	IC		NJM7812FA		REGULATOR 12V		02
JK101	**VU805200**	Cannon Connector		XLR NC3FAV1-0		INPUT/MIC(CH1)		04
JK102	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/LINE(CH1)		02
JK103	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/INSERT I/O(CH1)		02
JK201	**VU805200**	Cannon Connector		XLR NC3FAV1-0		INPUT/MIC(CH2)		04
JK202	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/LINE(CH2)		02
JK203	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/INSERT I/O(CH2)		02
JK301	**VU805200**	Cannon Connector		XLR NC3FAV1-0		INPUT/MIC(CH3)		04
JK302	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/LINE(CH3)		02
JK303	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/INSERT I/O(CH3)		02
JK401	**VU805200**	Cannon Connector		XLR NC3FAV1-0		INPUT/MIC(CH4)		04
JK402	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/LINE(CH4)		02
JK403	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/INSERT I/O(CH4)		02
JK501	**VU805200**	Cannon Connector		XLR NC3FAV1-0		INPUT/MIC(CH5)		04
JK502	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/LINE(CH5)		02
JK601	**VU805200**	Cannon Connector		XLR NC3FAV1-0		INPUT/MIC(CH6)		04
JK602	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/LINE(CH6		02
JK701	**VU805200**	Cannon Connector		XLR NC3FAV1-0		INPUT/MIC(CH7)		04
JK702	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/LINE(CH7)		02
JK801	**VU805200**	Cannon Connector		XLR NC3FAV1-0		INPUT/MIC(CH8)		04
JK802	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/LINE(CH8)		02
JK901	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/9L(MONO)		02
JK902	**V4807700**	Pin Connector		RJ-1130A-09-0320A		INPUT/9L,10R,11L,12R		03
JKA01	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/10R		02
JKB01	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/11L(MONO)		02
JKC01	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/12R		02
JKD01	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/ST SUB1(L(MONO),R),		02
-04	**V2954500**	Phone Connector		LJ-0695-4R-A		ST SUB2((L(MONO),R)		02
JKD05	**V4807700**	Pin Connector		RJ-1130A-09-0320A		INPUT/TAPE(L,R),		03
						OUTPUT/REC(L,R)		
JKE01	**V2954500**	Phone Connector		LJ-0695-4R-A		OUTPUT/L(ST1)		02
JKE02	**V2954500**	Phone Connector		LJ-0695-4R-A		OUTPUT/L(ST2)		02
JKF01	**V2954500**	Phone Connector		LJ-0695-4R-A		OUTPUT/R(ST1)		02
JKF02	**V2954500**	Phone Connector		LJ-0695-4R-A		OUTPUT/R(ST2)		02
JKG01	**V2954500**	Phone Connector		LJ-0695-4R-A		INPUT/BRIDGE L,P.AMP IN R		02
-03	**V2954500**	Phone Connector		LJ-0695-4R-A		OUTPUT/MONO		02
JKH01	**V2954500**	Phone Connector		LJ-0695-4R-A		OUTPUT/MONI 1		02
JKI01	**V2954500**	Phone Connector		LJ-0695-4R-A		OUTPUT/MONI 2		02
JKJ01	**V2954500**	Phone Connector		LJ-0695-4R-A		EFFECT		02
JKK01	**V2954500**	Phone Connector		LJ-0695-4R-A		C-R/PHONES		02
JKM01	**V2954500**	Phone Connector		LJ-0695-4R-A		FOOT SW		02
LD101	**VV620800**	LED	Red	LT311G-41-C13		PEAK(CH1)		01
LD201	**VV620800**	LED	Red	LT311G-41-C13		PEAK(CH2)		01
LD301	**VV620800**	LED	Red	LT311G-41-C13		PEAK(CH3)		01
LD401	**VV620800**	LED	Red	LT311G-41-C13		PEAK(CH4)		01
LD501	**VV620800**	LED	Red	LT311G-41-C13		PEAK(CH5)		01
LD601	**VV620800**	LED	Red	LT311G-41-C13		PEAK(CH6)		01
LD701	**VV620800**	LED	Red	LT311G-41-C13		PEAK(CH7)		01
LD801	**VV620800**	LED	Red	LT311G-41-C13		PEAK(CH8)		01
LD901	**VV620800**	LED	Red	LT311G-41-C13		PEAK(CH9/10)		01
LDB01	**VV620800**	LED	Red	LT311G-41-C13		PEAK(CH11/12)		01
LDM01	**VV620800**	LED	Red	LT311G-41-C13		ST1 L,R(PEAK),LIMITER(L/		01

✻: New Parts RANK: Japan only

REF NO.	PART NO.	DESCRIPTION				REMARKS	QTY	RANK
-04	VV620800	LED	Red	LT311G-41-C13		BRIDGE,R)		01
LDM05	VV621000	LED	Green	LT321-41-C13		ST1 L,R(-1,-3,-5,-7,-10,		01
-19	VV621000	LED	Green	LT321-41-C13		-15,-20),POWER		01
LDM20	VV938100	LED	Yellow	LT331-41-C13		ST1 L,R(+8,+5,+3,+1,0)		01
-30	VV938100	LED	Yellow	LT331-41-C13		PHANTOM		01
Q101	IC224030	Transistor		2SC2240 GR,BL				01
Q102	IC224030	Transistor		2SC2240 GR,BL				01
Q103	IC1815M0	Transistor		2SC1815 Y,GR				01
Q104	IA101590	Transistor		2SA1015 O,Y				01
Q201	IC224030	Transistor		2SC2240 GR,BL				01
Q202	IC224030	Transistor		2SC2240 GR,BL				01
Q203	IC1815M0	Transistor		2SC1815 Y,GR				01
Q204	IA101590	Transistor		2SA1015 O,Y				01
Q301	IC224030	Transistor		2SC2240 GR,BL				01
Q302	IC224030	Transistor		2SC2240 GR,BL				01
Q303	IC1815M0	Transistor		2SC1815 Y,GR				01
Q304	IA101590	Transistor		2SA1015 O,Y				01
Q401	IC224030	Transistor		2SC2240 GR,BL				01
Q402	IC224030	Transistor		2SC2240 GR,BL				01
Q403	IC1815M0	Transistor		2SC1815 Y,GR				01
Q404	IA101590	Transistor		2SA1015 O,Y				01
Q501	IC224030	Transistor		2SC2240 GR,BL				01
Q502	IC224030	Transistor		2SC2240 GR,BL				01
Q503	IC1815M0	Transistor		2SC1815 Y,GR				01
Q504	IA101590	Transistor		2SA1015 O,Y				01
Q601	IC224030	Transistor		2SC2240 GR,BL				01
Q602	IC224030	Transistor		2SC2240 GR,BL				01
Q603	IC1815M0	Transistor		2SC1815 Y,GR				01
Q604	IA101590	Transistor		2SA1015 O,Y				01
Q701	IC224030	Transistor		2SC2240 GR,BL				01
Q702	IC224030	Transistor		2SC2240 GR,BL				01
Q703	IC1815M0	Transistor		2SC1815 Y,GR				01
Q704	IA101590	Transistor		2SA1015 O,Y				01
Q801	IC224030	Transistor		2SC2240 GR,BL				01
Q802	IC224030	Transistor		2SC2240 GR,BL				01
Q803	IC1815M0	Transistor		2SC1815 Y,GR				01
Q804	IA101590	Transistor		2SA1015 O,Y				01
Q901	IC1815M0	Transistor		2SC1815 Y,GR				01
Q902	IA101590	Transistor		2SA1015 O,Y				01
QB01	IC1815M0	Transistor		2SC1815 Y,GR				01
QB02	IA101590	Transistor		2SA1015 O,Y				01
QM01	IC1815M0	Transistor		2SC1815 Y,GR				01
QM02	IC1815M0	Transistor		2SC1815 Y,GR				01
QM03	IA101590	Transistor		2SA1015 O,Y				01
QM04	IA101590	Transistor		2SA1015 O,Y				01
R101	HF458100	Carbon Resistor		100.0K 1/4 J				01
R102	VV058400	Flame Proof C. Resistor		390.0 1/4 J				01
R103	VV065300	Metal Film Resistor		6.8K 1/4 F				01
R104	VV065300	Metal Film Resistor		6.8K 1/4 F				01
R105	HF458100	Carbon Resistor		100.0K 1/4 J				01
R106	HF458100	Carbon Resistor		100.0K 1/4 J				01
R107	VV066000	Metal Film Resistor		33K 1/4 F				01
R108	VV066000	Metal Film Resistor		33K 1/4 F				01
R109	VV065200	Metal Film Resistor		4.7K 1/4 F				05
R110	HF454100	Carbon Resistor		10.0 1/4 J				01
-113	HF454100	Carbon Resistor		10.0 1/4 J				01
R114	VV066100	Metal Film Resistor		47K 1/4 F				01
R115	VV066100	Metal Film Resistor		47K 1/4 F				01
R116	VV064900	Metal Film Resistor		20.0 1/4 F				01
R117	VF459100	Metal Film Resistor		2.2K 1/4 F				01
R118	VF459100	Metal Film Resistor		2.2K 1/4 F				01
R119	VV065400	Metal Film Resistor		8.2K 1/4 F				01
R120	VV065400	Metal Film Resistor		8.2K 1/4 F				01
R121	VV065900	Metal Film Resistor		24K 1/4 F				01
R122	VV065900	Metal Film Resistor		24K 1/4 F				01
R123	VV065200	Metal Film Resistor		4.7K 1/4 F				05
R124	VV065200	Metal Film Resistor		4.7K 1/4 F				05
R125	HF457100	Carbon Resistor		10.0K 1/4 J				01
-127	HF457100	Carbon Resistor		10.0K 1/4 J				01
R128	HF455680	Carbon Resistor		680.0 1/4 J				01

✻: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
R129	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R130	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
-132	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
R133	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R134	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R135	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R136	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R137	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R138	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R139	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R140	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
R141	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R142	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
R143	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R144	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
R145	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
-149	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R150	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R151	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R152	**HF455180**	Carbon Resistor	180.0 1/4 J				01
R153	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
-156	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
R201	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R202	**VV058400**	Flame Proof C. Resistor	390.0 1/4 J				01
R203	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R204	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R205	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R206	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R207	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R208	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R209	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R210	**HF454100**	Carbon Resistor	10.0 1/4 J				01
-213	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R214	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R215	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R216	**VV064900**	Metal Film Resistor	20.0 1/4 F				01
R217	**VF459100**	Metal Film Resistor	2.2K 1/4 F				01
R218	**VF459100**	Metal Film Resistor	2.2K 1/4 F				01
R219	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R220	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R221	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R222	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R223	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R224	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R225	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
-227	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
R228	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R229	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R230	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
-232	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
R233	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R234	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R235	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R236	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R237	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R238	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R239	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R240	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
R241	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R242	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
R243	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R244	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
R245	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
-249	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R250	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R251	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R252	**HF455180**	Carbon Resistor	180.0 1/4 J				01
R253	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
-256	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
R301	**HF458100**	Carbon Resistor	100.0K 1/4 J				01

✻: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
R302	**VV058400**	Flame Proof C. Resistor	390.0 1/4 J				01
R303	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R304	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R305	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R306	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R307	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R308	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R309	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R310	**HF454100**	Carbon Resistor	10.0 1/4 J				01
-313	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R314	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R315	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R316	**VV064900**	Metal Film Resistor	20.0 1/4 F				01
R317	**VF459100**	Metal Film Resistor	2.2K 1/4 F				01
R318	**VF459100**	Metal Film Resistor	2.2K 1/4 F				01
R319	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R320	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R321	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R322	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R323	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R324	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R325	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
-327	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
R328	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R329	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R330	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
-332	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
R333	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R334	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R335	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R336	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R337	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R338	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R339	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R340	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
R341	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R342	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
R343	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R344	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
R345	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
-349	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R350	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R351	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R352	**HF455180**	Carbon Resistor	180.0 1/4 J				01
R353	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
-356	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
R401	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R402	**VV058400**	Flame Proof C. Resistor	390.0 1/4 J				01
R403	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R404	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R405	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R406	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R407	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R408	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R409	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R410	**HF454100**	Carbon Resistor	10.0 1/4 J				01
-413	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R414	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R415	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R416	**VV064900**	Metal Film Resistor	20.0 1/4 F				01
R417	**VF459100**	Metal Film Resistor	2.2K 1/4 F				01
R418	**VF459100**	Metal Film Resistor	2.2K 1/4 F				01
R419	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R420	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R421	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R422	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R423	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R424	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R425	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
-427	**HF457100**	Carbon Resistor	10.0K 1/4 J				01

✻: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
R428	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R429	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R430	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
-432	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
R433	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R434	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R435	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R436	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R437	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R438	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R439	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R440	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
R441	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R442	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
R443	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R444	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
R445	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
-449	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R450	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R451	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R452	**HF455180**	Carbon Resistor	180.0 1/4 J				01
R453	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
-456	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
R501	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R502	**VV058400**	Flame Proof C. Resistor	390.0 1/4 J				01
R503	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R504	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R505	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R506	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R507	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R508	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R509	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R510	**HF454100**	Carbon Resistor	10.0 1/4 J				01
-513	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R514	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R515	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R516	**VV064900**	Metal Film Resistor	20.0 1/4 F				01
R517	**VF459100**	Metal Film Resistor	2.2K 1/4 F				01
R518	**VF459100**	Metal Film Resistor	2.2K 1/4 F				01
R519	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R520	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R521	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R522	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R523	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R524	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R525	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
-527	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
R528	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R529	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R530	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
-532	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
R533	**HF455180**	Carbon Resistor	180.0 1/4 J				01
R535	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R536	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R537	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R538	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R539	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R540	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
R541	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R542	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
R543	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R544	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
R545	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
-549	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R550	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R551	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R552	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
-555	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
R601	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R602	**VV058400**	Flame Proof C. Resistor	390.0 1/4 J				01

✻: New Parts RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
R603	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R604	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R605	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R606	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R607	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R608	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R609	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R610	**HF454100**	Carbon Resistor	10.0 1/4 J				01
-613	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R614	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R615	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R616	**VV064900**	Metal Film Resistor	20.0 1/4 F				01
R617	**VV065100**	Metal Film Resistor	2.2K 1/4 F				01
R618	**VV065100**	Metal Film Resistor	2.2K 1/4 F				01
R619	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R620	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R621	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R622	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R623	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R624	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R625	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
-627	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
R628	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R629	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R630	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
-632	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
R633	**HF455180**	Carbon Resistor	180.0 1/4 J				01
R635	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R636	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R637	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R638	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R639	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R640	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
R641	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R642	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
R643	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R644	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
R645	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R646	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
-649	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R650	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R651	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R652	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
-655	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
R701	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R702	**VV058400**	Flame Proof C. Resistor	390.0 1/4 J				01
R703	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R704	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R705	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R706	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R707	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R708	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R709	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R710	**HF454100**	Carbon Resistor	10.0 1/4 J				01
-713	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R714	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R715	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R716	**VV064900**	Metal Film Resistor	20.0 1/4 F				01
R717	**VF459100**	Metal Film Resistor	2.2K 1/4 F				01
R718	**VF459100**	Metal Film Resistor	2.2K 1/4 F				01
R719	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R720	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R721	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R722	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R723	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R724	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R725	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
-727	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
R728	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R729	**HF455680**	Carbon Resistor	680.0 1/4 J				01

✻: New Parts RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
R730	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
-732	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
R733	**HF455180**	Carbon Resistor	180.0 1/4 J				01
R735	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R736	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R737	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R738	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R739	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R740	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
R741	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R742	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
R743	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R744	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
R745	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
-749	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R750	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R751	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R752	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
-755	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
R801	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R802	**VV058400**	Flame Proof C. Resistor	390.0 1/4 J				01
R803	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R804	**VV065300**	Metal Film Resistor	6.8K 1/4 F				01
R805	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R806	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R807	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R808	**VV066000**	Metal Film Resistor	33K 1/4 F				01
R809	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R810	**HF454100**	Carbon Resistor	10.0 1/4 J				01
-813	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R814	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R815	**VV066100**	Metal Film Resistor	47K 1/4 F				01
R816	**VV064900**	Metal Film Resistor	20.0 1/4 F				01
R817	**VF459100**	Metal Film Resistor	2.2K 1/4 F				01
R818	**VF459100**	Metal Film Resistor	2.2K 1/4 F				01
R819	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R820	**VV065400**	Metal Film Resistor	8.2K 1/4 F				01
R821	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R822	**VV065900**	Metal Film Resistor	24K 1/4 F				01
R823	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R824	**VV065200**	Metal Film Resistor	4.7K 1/4 F				05
R825	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
-827	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
R828	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R829	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R830	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
-832	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
R833	**HF455180**	Carbon Resistor	180.0 1/4 J				01
R835	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R836	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R837	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R838	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R839	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R840	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
R841	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R842	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
R843	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R844	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
R845	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
-849	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R850	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R851	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R852	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
-855	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
R901	**HF458240**	Carbon Resistor	240.0K 1/4 J				01
R902	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
R903	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
R904	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R905	**HF455120**	Carbon Resistor	120.0 1/4 J				01
R906	**HF457200**	Carbon Resistor	20.0K 1/4 J				01

✻: New Parts RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
R907	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
-909	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
R910	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R911	**HF455680**	Carbon Resistor	680.0 1/4 J				01
R912	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
-914	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
R915	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R916	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R917	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R918	**HF455220**	Carbon Resistor	220.0 1/4 J				01
R919	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R920	**HF454100**	Carbon Resistor	10.0 1/4 J				01
R921	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
R922	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
-924	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
R925	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
R926	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R927	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
R928	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R929	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
R930	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
R931	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
R932	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RA01	**HF458240**	Carbon Resistor	240.0K 1/4 J				01
RA02	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RA03	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
RA04	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RA05	**HF455120**	Carbon Resistor	120.0 1/4 J				01
RA06	**HF457200**	Carbon Resistor	20.0K 1/4 J				01
RA07	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
-09	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RA10	**HF455680**	Carbon Resistor	680.0 1/4 J				01
RA11	**HF455680**	Carbon Resistor	680.0 1/4 J				01
RA12	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
-14	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
RA15	**HF454100**	Carbon Resistor	10.0 1/4 J				01
RA16	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RA17	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RA18	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RA19	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RA20	**HF454100**	Carbon Resistor	10.0 1/4 J				01
RA21	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RA22	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
-24	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
RA25	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
RA26	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RB01	**HF458240**	Carbon Resistor	240.0K 1/4 J				01
RB02	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RB03	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
RB04	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RB05	**HF455120**	Carbon Resistor	120.0 1/4 J				01
RB06	**HF457200**	Carbon Resistor	20.0K 1/4 J				01
RB07	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
-09	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RB10	**HF455680**	Carbon Resistor	680.0 1/4 J				01
RB11	**HF455680**	Carbon Resistor	680.0 1/4 J				01
RB12	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
-14	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
RB15	**HF454100**	Carbon Resistor	10.0 1/4 J				01
RB16	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RB17	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RB18	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RB19	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RB20	**HF454100**	Carbon Resistor	10.0 1/4 J				01
RB21	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RB22	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
-24	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
RB25	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
RB26	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RB27	**HF457100**	Carbon Resistor	10.0K 1/4 J				01

✻: New Parts RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
RB28	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RB29	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
RB30	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RB31	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
RB32	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RC01	**HF458240**	Carbon Resistor	240.0K 1/4 J				01
RC02	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RC03	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
RC04	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RC05	**HF455120**	Carbon Resistor	120.0 1/4 J				01
RC06	**HF457200**	Carbon Resistor	20.0K 1/4 J				01
RC07	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
-09	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RC10	**HF455680**	Carbon Resistor	680.0 1/4 J				01
RC11	**HF455680**	Carbon Resistor	680.0 1/4 J				01
RC12	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
-14	**HF456270**	Carbon Resistor	2.7K 1/4 J				01
RC15	**HF454100**	Carbon Resistor	10.0 1/4 J				01
RC16	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RC17	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RC18	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RC19	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RC20	**HF454100**	Carbon Resistor	10.0 1/4 J				01
RC21	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RC22	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
-24	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
RC25	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
RC26	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RD01	**HF456390**	Carbon Resistor	3.9K 1/4 J				01
-04	**HF456390**	Carbon Resistor	3.9K 1/4 J				01
RD05	**HF456680**	Carbon Resistor	6.8K 1/4 J				01
-08	**HF456680**	Carbon Resistor	6.8K 1/4 J				01
RD09	**HF455220**	Carbon Resistor	220.0 1/4 J				01
-12	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RD13	**HF454100**	Carbon Resistor	10.0 1/4 J				01
-16	**HF454100**	Carbon Resistor	10.0 1/4 J				01
RD17	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RD18	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RD19	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
-22	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
RD23	**HF457360**	Carbon Resistor	36.0K 1/4 J				01
RD24	**HF457360**	Carbon Resistor	36.0K 1/4 J				01
RD25	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RD26	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RD27	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
-30	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
RD31	**HF457360**	Carbon Resistor	36.0K 1/4 J				01
RD32	**HF457360**	Carbon Resistor	36.0K 1/4 J				01
RD33	**HF458120**	Carbon Resistor	120.0K 1/4 J				01
RD34	**HF458120**	Carbon Resistor	120.0K 1/4 J				01
RD35	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RD36	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RD37	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
RD38	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
RD39	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RD40	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RD41	**HF456680**	Carbon Resistor	6.8K 1/4 J				01
RD42	**HF456680**	Carbon Resistor	6.8K 1/4 J				01
RD43	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RD44	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RD45	**HF454100**	Carbon Resistor	10.0 1/4 J				01
RD46	**HF454100**	Carbon Resistor	10.0 1/4 J				01
RD47	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RD48	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RD49	**HF457360**	Carbon Resistor	36.0K 1/4 J				01
RD50	**HF457360**	Carbon Resistor	36.0K 1/4 J				01
RD51	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RD52	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RD53	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
-56	**HF457270**	Carbon Resistor	27.0K 1/4 J				01

✻: New Parts RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
RE01	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RE02	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RE03	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RE04	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
RE05	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
RE06	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RE07	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
RE08	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RE09	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
RE10	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
RE11	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RE12	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RE13	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RE14	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
RE15	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RE16	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
RE17	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
RE18	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RE19	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RE20	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RE21	**HF456150**	Carbon Resistor	1.5K 1/4 J				01
RE22	**HF456120**	Carbon Resistor	1.2K 1/4 J				01
RE23	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RE24	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RE25	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RF01	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RF02	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RF03	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RF04	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
RF05	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
RF06	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RF07	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
RF08	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RF09	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
RF10	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
RF11	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RF12	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RF13	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RF14	**HF457120**	Carbon Resistor	12.0K 1/4 J				01
RF15	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RF16	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
RF17	**HF456220**	Carbon Resistor	2.2K 1/4 J				01
RF18	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RF19	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RF20	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RF21	**HF456150**	Carbon Resistor	1.5K 1/4 J				01
RF22	**HF456120**	Carbon Resistor	1.2K 1/4 J				01
RF23	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RF24	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RF25	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RG01	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
RG02	**HF457270**	Carbon Resistor	27.0K 1/4 J				01
RG03	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RG04	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RG05	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RG06	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RG07	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RG08	**VV065600**	Metal Film Resistor	11K 1/4 F				05
RG09	**VV065600**	Metal Film Resistor	11K 1/4 F				05
RG10	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RG11	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RG12	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RG13	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RG14	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RG15	**VV065600**	Metal Film Resistor	11K 1/4 F				05
RG16	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RH01	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RH02	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RH03	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RH04	**HF457100**	Carbon Resistor	10.0K 1/4 J				01

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REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
RH05	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RH06	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RH07	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RH08	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RI01	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RI02	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RI03	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RI04	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RI05	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RI06	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RI07	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RI08	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RJ01	**HF457360**	Carbon Resistor	36.0K 1/4 J				01
RJ02	**HF454100**	Carbon Resistor	10.0 1/4 J				01
RJ03	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RJ04	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RJ05	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RJ06	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RJ07	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RJ08	**HF457330**	Carbon Resistor	33.0K 1/4 J				01
RJ09	**HF454750**	Carbon Resistor	75.0 1/4 J				01
RK01	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
RK02	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RK03	**HF458180**	Carbon Resistor	180.0K 1/4 J				01
RK04	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RK05	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RK06	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RK07	**VV058500**	Flame Proof C. Resistor	10.0 1/4 J				01
RK08	**VV058500**	Flame Proof C. Resistor	10.0 1/4 J				01
RL01	**HF457680**	Carbon Resistor	68.0K 1/4 J				01
RL02	**HF457180**	Carbon Resistor	18.0K 1/4 J				01
RL03	**HF458180**	Carbon Resistor	180.0K 1/4 J				01
RL04	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RL05	**HF455220**	Carbon Resistor	220.0 1/4 J				01
RL06	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RM01	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RM02	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RM03	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
RM04	**HF456820**	Carbon Resistor	8.2K 1/4 J				01
RM05	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RM06	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RM07	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
RM08	**HF456470**	Carbon Resistor	4.7K 1/4 J				01
RM09	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RM10	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RM11	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
RM12	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
RM13	**HF458240**	Carbon Resistor	240.0K 1/4 J				01
RM14	**HF458240**	Carbon Resistor	240.0K 1/4 J				01
RM15	**HF455330**	Carbon Resistor	330.0 1/4 J				01
RM16	**HF455330**	Carbon Resistor	330.0 1/4 J				01
RM17	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
RM18	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
RM19	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RM20	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RM21	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RM22	**HF458100**	Carbon Resistor	100.0K 1/4 J				01
RM23	**HF456330**	Carbon Resistor	3.3K 1/4 J				01
RM24	**HF456560**	Carbon Resistor	5.6K 1/4 J				01
RM25	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
RM26	**HF457470**	Carbon Resistor	47.0K 1/4 J				01
RM27	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
RM28	**HF457100**	Carbon Resistor	10.0K 1/4 J				01
SW101	**V2947300**	Push Switch	ESB31L402		PFL(CH1)		02
SW201	**V2947300**	Push Switch	ESB31L402		PFL(CH2)		02
SW301	**V2947300**	Push Switch	ESB31L402		PFL(CH3)		02
SW401	**V2947300**	Push Switch	ESB31L402		PFL(CH4)		02
SW501	**V2947300**	Push Switch	ESB31L402		PFL(CH5)		02
SW601	**V2947300**	Push Switch	ESB31L402		PFL(CH6)		02
SW701	**V2947300**	Push Switch	ESB31L402		PFL(CH7)		02

✻: New Parts　　RANK: Japan only

REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
SW801	**V2947300**	Push Switch	ESB31L402		PFL(CH8)		02
SW901	**V2947300**	Push Switch	ESB31L402		A,B(CH9/10)		02
SW902	**V2947300**	Push Switch	ESB31L402		PFL(CH9/10)		02
SWB01	**V2947300**	Push Switch	ESB31L402		A,B(CH11/12)		02
SWB02	**V2947300**	Push Switch	ESB31L402		PFL(CH11/12)		02
SWD01	**V2947300**	Push Switch	ESB31L402		PFL(ST SUB1,2,TAPE IN,		02
-04	**V2947300**	Push Switch	ESB31L402		D.EFFECT ON)		02
SWE01	**V2947300**	Push Switch	ESB31L402		G.EQ ON		02
SWE02	**V2947300**	Push Switch	ESB31L402		AFL(ST1)		02
SWG01	**V2947300**	Push Switch	ESB31L402		AFL(MONO)		02
SWG02	**VZ253800**	Slide Switch	SS008-P2430BB-PA6		POWER AMP Select Switch		03
SWH01	**V2947300**	Push Switch	ESB31L402		AFL(MONI1)		02
SWI01	**V2947300**	Push Switch	ESB31L402		AFL(MONI2		02
SWJ01	**V2947300**	Push Switch	ESB31L402		AFL(EFFECT)		02
SWM01	**VV051500**	Slide Switch	SSSU012NB1-YL		PHANTOM ON/OFF		02
VR101	**V6159600**	Rotary Variable Resistor	RD 5K RK09D113		CH1(GAIN)		01
VR102	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113		CH1(HIGH,MID,LOW)		01
-104	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113				01
VR105	**VU804100**	Slide Variable Resistor	RS6011YG6036-10KA		CH1(Fader)		04
VR106	**VZ610800**	Rotary Variable Resistor	AC 20K RK12L123		CH1(PAN)		03
VR107	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113		CH1(EFFECT,MONI1,2)		01
-109	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113				01
VR201	**V6159600**	Rotary Variable Resistor	RD 5K RK09D113		CH2(GAIN)		01
VR202	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113		CH2(HIGH,MID,LOW)		01
-204	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113				01
VR205	**VU804100**	Slide Variable Resistor	RS6011YG6036-10KA		CH2(Fader)		04
VR206	**VZ610800**	Rotary Variable Resistor	AC 20K RK12L123		CH2(PAN)		03
VR207	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113		CH2(EFFECT,MONI1,2)		01
-209	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113				01
VR301	**V6159600**	Rotary Variable Resistor	RD 5K RK09D113		CH3(GAIN)		01
VR302	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113		CH3(HIGH,MID,LOW)		01
-304	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113				01
VR305	**VU804100**	Slide Variable Resistor	RS6011YG6036-10KA		CH3(Fader)		04
VR306	**VZ610800**	Rotary Variable Resistor	AC 20K RK12L123		CH3(PAN)		03
VR307	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113		CH3(EFFECT,MONI1,2)		01
-309	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113				01
VR401	**V6159600**	Rotary Variable Resistor	RD 5K RK09D113		CH4(GAIN)		01
VR402	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113		CH4(HIGH,MID,LOW)		01
-404	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113				01
VR405	**VU804100**	Slide Variable Resistor	RS6011YG6036-10KA		CH4(Fader)		04
VR406	**VZ610800**	Rotary Variable Resistor	AC 20K RK12L123		CH4(PAN)		03
VR407	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113		CH4(EFFECT,MONI1,2)		01
-409	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113				01
VR501	**V6159600**	Rotary Variable Resistor	RD 5K RK09D113		CH5(GAIN)		01
VR502	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113		CH5(HIGH,MID,LOW)		01
-504	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113				01
VR505	**VU804100**	Slide Variable Resistor	RS6011YG6036-10KA		CH5(Fader)		04
VR506	**VZ610800**	Rotary Variable Resistor	AC 20K RK12L123		CH5(PAN)		03
VR507	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113		CH5(EFFECT,MONI1,2)		01
-509	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113				01
VR601	**V6159600**	Rotary Variable Resistor	RD 5K RK09D113		CH6(GAIN)		01
VR602	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113		CH6(HIGH,MID,LOW)		01
-604	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113				01
VR605	**VU804100**	Slide Variable Resistor	RS6011YG6036-10KA		CH6(Fader)		04
VR606	**VZ610800**	Rotary Variable Resistor	AC 20K RK12L123		CH6(PAN)		03
VR607	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113		CH6(EFFECT,MONI1,2)		01
-609	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113				01
VR701	**V6159600**	Rotary Variable Resistor	RD 5K RK09D113		CH7(GAIN)		01
VR702	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113		CH7(HIGH,MID,LOW)		01
-704	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113				01
VR705	**VU804100**	Slide Variable Resistor	RS6011YG6036-10KA		CH7(Fader)		04
VR706	**VZ610800**	Rotary Variable Resistor	AC 20K RK12L123		CH7(PAN)		03
VR707	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113		CH7(EFFECT,MONI1,2)		01
-709	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113				01
VR801	**V6159600**	Rotary Variable Resistor	RD 5K RK09D113		CH8(GAIN)		01
VR802	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113		CH8(HIGH,MID,LOW)		01
-804	**V5521600**	Rotary Variable Resistor	B 50.0K RD09F113				01
VR805	**VU804100**	Slide Variable Resistor	RS6011YG6036-10KA		CH8(Fader)		04
VR806	**VZ610800**	Rotary Variable Resistor	AC 20K RK12L123		CH8(PAN)		03
VR807	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113		CH8(EFFECT,MONI1,2)		01

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	REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
	-809	**V5521500**	Rotary Variable Resistor	A 20.0K RK09D113				01
	VR901	**VZ611000**	Rotary Variable Resistor	C 20K RK12L123		CH9/10(GAIN)		05
	VR902	**VU806400**	Rotary Variable Resistor	B50K EVJYAEF03B54		CH9/10(HIGH,MID,LOW)		03
	-904	**VU806400**	Rotary Variable Resistor	B50K EVJYAEF03B54				03
	VR905	**VZ610800**	Rotary Variable Resistor	AC 20K RK12L123		CH9/10(PAN)		03
	VR906	**VZ610900**	Rotary Variable Resistor	A 20K RK12L12C		CH9/10(EFFECT,MONI1,2)		02
	-908	**VZ610900**	Rotary Variable Resistor	A 20K RK12L12C				02
	VR909	**VU804200**	Slide Variable Resistor	RS60112G6039-10KA2		CH11/12(Fader)		04
	VRB01	**VZ611000**	Rotary Variable Resistor	C 20K RK12L123		CH11/12(GAIN)		05
	VRB02	**VU806400**	Rotary Variable Resistor	B50K EVJYAEF03B54		CH11/12(HIGH,MID,LOW)		03
	-04	**VU806400**	Rotary Variable Resistor	B50K EVJYAEF03B54				03
	VRB05	**VZ610800**	Rotary Variable Resistor	AC 20K RK12L123		CH11/12(PAN)		03
	VRB06	**VZ610900**	Rotary Variable Resistor	A 20K RK12L12C		CH11/12(EFFECT,MONI1,2)		02
	-08	**VZ610900**	Rotary Variable Resistor	A 20K RK12L12C				02
	VRB09	**VU804200**	Slide Variable Resistor	RS60112G6039-10KA2		CH11/12(Fader)		04
	VRD01	**VZ610900**	Rotary Variable Resistor	A 20K RK12L12C		ST SUB1(MONI1,MONI2,ST),		02
	-10	**VZ610900**	Rotary Variable Resistor	A 20K RK12L12C		ST SUB2(MONI1,MONI2,ST),		02
						TAPE IN(ST),D.EFFECT(ST,		
						MONI1,MONI2)		
	VRE01	**VU804300**	Slide Variable Resistor	W 20.0K RS20H12		G,EQ(125,250,500,1K,2K,		03
	-07	**VU804300**	Slide Variable Resistor	W 20.0K RS20H12		4K,8K)		03
	VRE08	**VU804200**	Slide Variable Resistor	RS60112G6039-10KA2		ST1(Fader)		04
	VRE09	**VZ610900**	Rotary Variable Resistor	A 20K RK12L12C		ST2		02
	VRG01	**VU804100**	Slide Variable Resistor	RS6011YG6036-10KA		MONO(Fader)		04
	VRG02	**VZ531900**	Rotary Variable Resistor	RV122NB20KC-15KQ		LIMITER(L/BRIDGE)		03
	VRG03	**VZ531900**	Rotary Variable Resistor	RV122NB20KC-15KQ		LIMITER(R)		03
	VRH01	**VU804100**	Slide Variable Resistor	RS6011YG6036-10KA		MONI1(Fader)		04
	VRI01	**VU804100**	Slide Variable Resistor	RS6011YG6036-10KA		MONI2(Fader)		04
	VRJ01	**VU804100**	Slide Variable Resistor	RS6011YG6036-10KA		EFFECT(Fader)		04
	VRK01	**VZ610900**	Rotary Variable Resistor	A 20K RK12L12C		C-R/PHONES		02
	VRM01	**V6159700**	Rotary Variable Resistor	B 10.0K RK09D113		PARAMETER		01
	ZDM01	**VG443700**	Zener Diode	MTZ J 33.0B 33.0V				01
⚠ *		**XZ505A00**	Power Transformer	J		J		
⚠ *		**XZ506A00**	Power Transformer	U		U		
⚠ *		**XZ507A00**	Power Transformer	H		H		
⚠ *		**XZ508A00**	Power Transformer	A		A		
*		**V6786600**	Heat sink					
		V6024100	DC Fun	3110GL-B5W-B50-H01				08

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